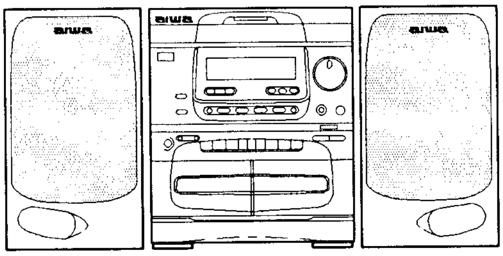
aiwa

XG – 500
NSX – 500
CX – 3500



COMPACT DISC STEREO SYSTEM

- BASIC TAPE MECHANISM : 2ZM – 3
- BASIC CD MECHANISM : KSM – 2101ABM
- TYPE. D,HE,LH,HD,HR,U,E,K,Z

製品コード : 82NY5 – 0110 (B)
82NY5 – 0210 (BJ)

SYSTEM	CD – CASSEIVER	REMOTE CONTROLLER	SPEAKER
XG – 500	CX – N500	RC – TN500	SX – N500
NSX – 500			
————	CX – N3500		
————	CX – N500		

S/M Code No. 0221 DATE OF ISSUE 4/1993 – K

SERVICE MANUAL

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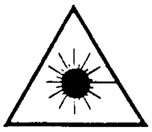
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion.
  Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

CLASS 1
LASER PRODUCT

LUOKAN 1
LASERLAITE

KLASS 1
LASER APPARAT

Precaution to replace Optical block
光学ブロック（KSS－210A）交換時の注意

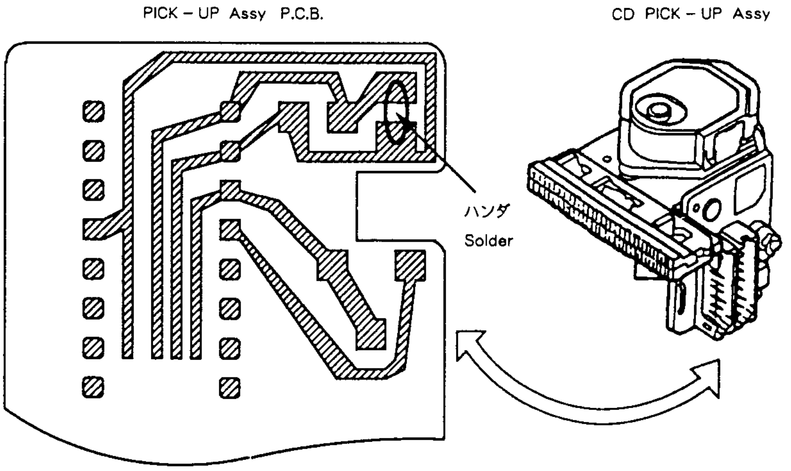
(KSS－210A)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the' clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.

光学系ブロック内のレーザーダイオードは、衣服や人体に帯電した静電荷等で電位差を生じることにより、静電破壊することがあります。人体アース、作業台のアースをとり、衣服が触れぬよう注意して下さい。

1）コネクターを接続後、右図に示すハンダ付けを取り除いて下さい。



SPECIFICATIONS

チューナー部

<FM部>

受信周波数: 76 MHz～108 MHz
実用感度: 1.8 μV (75 Ω) 16.2 dBf (IHF)
実効選択度: 50 dB (±400 kHz)
SN比: 70 dB (STEREO) 78 dB (MONO)
高調波歪率: MONO 0.3% (1kHz)
STEREO 0.8% (1kHz)
周波数特性: 20 Hz～15,000 Hz (+0.5 dB、−3 dB)
ステレオセパレーション: 35 dB (1kHz)
アンテナ: 75 Ω（不平衡）

<AM部>

受信周波数: 530 kHz～1710 kHz
実用感度: ループアンテナ300 μV/m
選択度: 18 dB
SN比: 53 dB(100 dB入力) (MONO)
ステレオセパレーション: 20 dB (1kHz)
アンテナ: ループアンテナ

<タイマー部>

プログラムタイマー: オン・タイマー、任意に設定可
スリープタイマー: 10分単位で設定可、最大240分

アンプ部

定格出力: 30W + 30 W (1kHz、10%) EIAJ
高調波歪率: 0.05% (15W、1kHz、6Ω)
入力感度：VIDEO/AUX：150 mV（ボリュームつき）

カセットデッキ部

トラック方式: 4トラック2チャンネル
周波数特性:

テープの種類	周波数特性
CrO_2 テープ	50～16,000 Hz
ノーマルテープ	50～15,000 Hz

SN比: 60 dB（DOLBY NR ON、CrO_2 テープピークレベル）
テープ速度: 4.8 cm / sec
モーター: DCサーボモーター×1（キャプスタン用）
ヘッド: 再生ヘッド×1（デッキ1）
録再・消去コンビネーションヘッド×1（デッキ2）

CDプレーヤー部

ディスク: コンパクトディスク
読み取り方式: 非接触光学式読み取り（半導体レーザー使用）
レーザー：半導体レーザー λ=780 nm
回転数：約 500 rpm ～ 200 rpm (CLV)
エラー訂正方式：クロスインターリーブ リードソロモンコード
チャンネル数：2チャンネル
復号化：16 bit 直線
SN比：90 dB (1kHz)
高調波歪率：0.05 % (1kHz)
ワウフラッター：測定限界以下

スピーカー

(SX-N500)

型式：3ウェイバスレフタイプ
（磁気シールドタイプ：EIAJ）
インピーダンス：6 Ω
最大入力：40 W（ミュージックパワー）
出力音圧レベル：87 dB / W / m
使用スピーカー：ウーハー13 cm コーン型
ツイーター 5 cm コーン型
スーパーツィーター 2 cm
寸法：180 (W) ×302.5 (H) × 220 (D) mm
重量：2.8 kg

共通部

電源：AC 100 V、50 / 60 Hz
消費電力：70W
本体寸法：260 (W) × 302.5 (H) × 335.5 (D) mm
本体重量：7.0kg
システム寸法：620 (W) × 302.5 (H) × 335.5 (D) mm
システム重量：12.6 kg

- **外観及び仕様は予告なく変更する場合があります。**
- **ドルビーノイズリダクションはドルビーラボラトリーズライセンシングコーポレーションからの実施権に基づき製造されています。**
  ドルビー、DOLBY及びダブルD記号 DD はドルビーラボラトリーズライセンシングコーポレーションの商標です。
- **ＢＢＥおよびＢＢＥシンボルマークはＢＢＥ・サウンド・インコーポレイテッドの商標です。**
  ＢＢＥ・サウンド・インコーポレイテッドにより実施権を許諾された商品です。

SPECIFICATIONS

<FM section>

Frequency range	HD: 76.0 MHz to 108 MHz LH, HE, HR, E, K, Z: 87.5 MHz to 108 MHz
Usable sensitivity (IHF)	LH, HE, HR, E, K: 1.3 µV (75 ohms) 13.2 dBf Z: 1.9 µV (75 ohms) 16.8 dBf HD: 1.8 µV (75 ohms) 16.2 dBf
Alternate channel selectivity	50 dB (±400 kHz)
Signal-to-noise ratio	STEREO: 70 dB (LH, HE, HR, HD, E, K) 65 dB (Z) MONO: 76 dB (LH, HE, HR, E, K) 78 dB (HD) 73 dB (Z)
Harmonic distortion	0.3 % (MONO), 1 kHz 0.5 % (STEREO, L-R), 1 kHz (LH, HE, HR, E, K, Z) 0.8 % (STEREO L-R), 1 kHz (HD)
Frequency response	30 Hz to 15 kHz (+0.5 dB, − 3 dB)
Stereo separation	LH, HE, HR, E, K: 33 dB at 1 kHz Z: 30 dB at 1 kHz HD: 35 dB at 1 kHz
Antenna	75 ohms (unbalanced)

<AM (MW) section>

Frequency range	NSX-500HE, HR, HD, E, K, Z: AM 531 (530) kHz to 1,602 (1,710) kHz NSX-500LH, NSX-3500U: AM 530 (531) kHz to 1,710 (1,602) kHz
Usable sensitivity	350 µV/m
Selectivity	22 dB (9 kHz)
Signal-to-noise ratio	53 dB (100 dB input)
Stereo separation (HD)	20 dB at 1 kHz
Antenna	Loop antenna

<LW section > (E, K, Z models only)

Frequency range	144 kHz to 290 kHz
Sensitivity	1,400 µV/m
Antenna	Loop antenna

<Timer section>

Program timer	On-timer, capable of free setting
Sleep timer	Capable of setting in 10-minute increments, 240 minutes maximum

<Amplifier section>

Power output	NSX-500LH, HE, HR, HD: 40 W + 40 W (6 ohms, T.H.D. 10% 1 kHz) NSX-500E, Z: 30 W + 30 W (6 ohms, T.H.D. 1 % 1 kHz) NSX-500K: 40 W + 40 W (6 ohms, T.H.D. 10 % 1 kHz) 30 W + 30 W (6 ohms, T.H.D. 1 % 1 kHz) FTC RULE (NSX-3500U) 30 watts per channel, Min. RMS at 6 ohms, from 65 Hz to 15 kHz, with no more than 1 % Total Harmonic Distortion
Harmonic distortion	0.05 % (15 W, 1 kHz, 6 ohms)
Input sensitivity	VIDEO/AUX: 150 mV (adjustable)

<Cassette deck section>

Track format	4 tracks, 2 channels
Frequency response	CrO_2 tape: 50 – 16,000 Hz Normal tape: 50 – 15,000 Hz
Signal-to-noise ratio	60 dB (DOLBY NR ON, CrO_2 tape peak level)
Tape speed	4.8 cm/sec. ($1\frac{7}{8}$ ips)
Recording system	AC bias
Erasure system	AC erase
Motor	DC servomotor × 1
Heads	Playback head × 1 (deck 1) Recording/playback/erasure head × 1 (deck 2)

<CD player section>

Disc	Compact disc
Scanning method	Non contact optical scanner (semiconductor laser application)
Laser	Semiconductor laser (λ = 780 nm)
Rotation speed	Approx. 500 rpm – 200 rpm (CLV)
Error correction	Cross Interleave, Reed Solomon code
No. of channels	2 channels
D-A conversion	16-bit linear
Wow/flutter	Unmeasurable
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	0.05% (1 kHz, 0 dB)

<Speaker SX-N500/SX-N3500>

Cabinet type	3 way, bass reflex (Magnetism sealed type)
Speaker	130 mm ($5\frac{1}{8}$ in.) cone type woofer 50 mm (2 in.) cone type tweeter 20 mm ($\frac{13}{16}$ in.) ceramic type super tweeter
Impedance	6 ohms
Music power	40 W
Output sound pressure level	87 dB/W/m
Dimensions (W × H × D)	180 × 302.5 × 220 mm ($7\frac{1}{8}$ × 12 × $8\frac{3}{4}$ in.)
Weight	2.8 kg (6.2 lbs.)

<General>

Power requirements	NSX-500LH, HE, HR: AC 120 V/220 V/240 V, switchable 50/60 Hz NSX-500HD: AC 100-120 V/200-240 V, switchable 50/60 Hz NSX-3500U: AC 120 V, 50/60 Hz NSX-500E, Z: AC 230 V, 50 Hz NSX-500K: AC 240 V, 50 Hz
Power consumption	NSX-500LH, HE: 90 W NSX-500HD: 98 W NSX-3500U: 80 W NSX-500E, K, Z: 210 W
Dimensions (W × H × D)	Center unit: 260 × 302.5 × 335.5 mm ($10\frac{1}{4}$ × 12 × $13\frac{1}{4}$ in.) System: 620 × 302.5 × 335.5 mm ($24\frac{1}{2}$ × 12 × $13\frac{1}{4}$ in.)
Weight	Center unit: 7.4 kg (16.3 lbs.) System: 13.0 kg (28.6 lbs.)

- Design and specifications are subject to change without notice.

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
  "DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

- The word "BBE" and the "BBE" symbol are trademarks of BBE Sound, Inc.

- Under license from BBE Sound, Inc.

DISASSEMBLY INSTRUCTIONS

1. 3巻CDブロックのはずし方 (Fig-1参照)
   1) 本体の電源を入れ、⏏ OPEN/CLOSEを押して、トレーをオープンさせる。
   2) パネルトレーのツメ①3ケ所をはずす。
   3) 固定ビス3本 (Ⓐ×2、Ⓑ×1) をはずす。
   4) 7PケーブルをメインCB側ではずす。
   5) 14PケーブルをCDメインCB側ではずす。
   6) CDブロックのリヤ部を矢印方向に持ち上げて、CDブロックをはずす。
1. "CD Block" Removal (See Figure-1.)
   1) Turn on the power of the unit. Press the ⏏ OPEN/CLOSE key to open the CD tray.
   2) Undo the three hooks ① from the tray panel.
   3) Remove the three fixing screws (Ⓐ×2, Ⓑ×1).
   4) Disconnect the 7-pin cable from the main CB.
   5) Disconnect the 14-pin cable from the CD main CB.
   6) Lift the back of the CD block in the direction of arrow and take out the CD block.

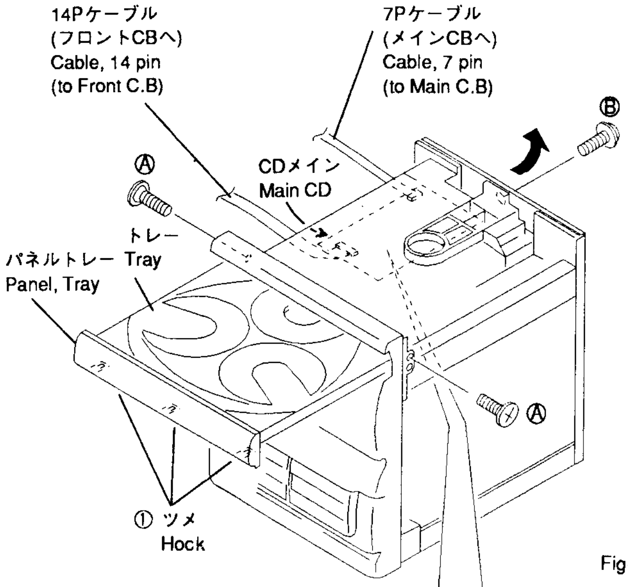

14Pケーブル
(フロントCBへ)
Cable, 14 pin
(to Front C.B)
7Pケーブル
(メインCBへ)
Cable, 7 pin
(to Main C.B)
Ⓑ
Ⓐ
CDメイン
Main CD
トレー
Tray
パネルトレー
Panel, Tray
Ⓐ
① ツメ
Hock

Fig-1

※ 注1

CDトレーを他の方法でオープンさせるには (Fig-2参照)

1) ②のギヤリレーを矢印方向に手で回して、トレーをオープンさせる。
2) CDメインCBについているローディングモーターにDC5Vを接続してモーターを回す。

※ Note 1

To open the CD tray in another way. (See Figure-2.)

1) Turn the gear relay ② by hand in the direction of arrow to open the tray.
2) Connect DC5V power to the loading motor located on the CD main CB in order to run the motor.

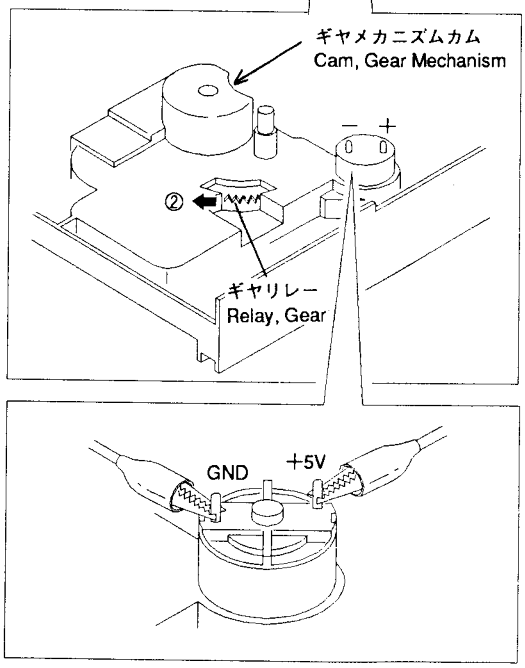

ギヤメカニズムカム
Cam, Gear Mechanism
− +
②
ギヤリレー
Relay, Gear
GND
+5V

Fig-2

2. トレーASSYのはずし方 (Fig-3参照)
   1) 本体の電源を入れるか、注1の方法でトレーをオープンさせる。
   2) トレー下側のツメ③2ケ所をドライバーなどで押し下げて、ツメの引掛りをはずす。
   3) トレーを前方へ引き出す。
2. "Tray Assembly" Removal (See Figure-3)
   1) Turn on the power of the unit or take the procedure in Note 1 to open the tray.
   2) Press down and undo the two hooks ③, located under the tray, using a screwdriver or the like.
   3) Draw out the tray toward yourself.

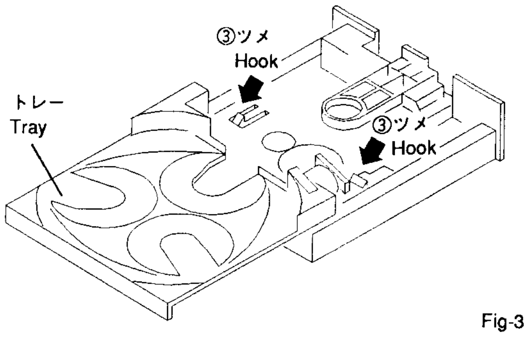

③ツメ
Hook
トレー
Tray
③ツメ
Hook

Fig-3

3. トレーと各ギヤーのセッティング方法 (Fig-4参照)

1) ギヤーメカカムと、プレートカムを図の位置のように合わせる。
2) このとき、SWをⒶの位置になるようにする。
3) ギヤートレーカムの目印Ⓒが図の位置にくるように取付ける。
4) ギヤートレーAの合わせマークとトレーラックの一番初めの歯を合わせながらトレーを挿し込む。

3. "Tray" and Each Gear Setting (See Figure-4)

1) Align the "Cam, Gear Mechanism" and "Cam, Plate" as shown in the figure.
2) Adjust SW so that it comes to position Ⓐ when performing.
3) Attach "Cam, Gear Tray" so that mark Ⓒ is positioned as shown in the figure.
4) Insert "Tray" so that the aligning mark of "Tray A, Gear" is opposite the first tooth of "Rack, Tray".

注)SWがⒷの位置にあった場合には、（トレーOPEN時）Ⓐの位置に合わせて、セッティングし直して下さい。
SWが正常な位置にないとトレー及び、チャッキングの誤動作を起こします。

Note) If SW is at position Ⓑ (when "Tray" is open.), reset the cams so that SW comes to position Ⓐ.
If SW is not positioned correctly, "Tray" and chucking do not work well.

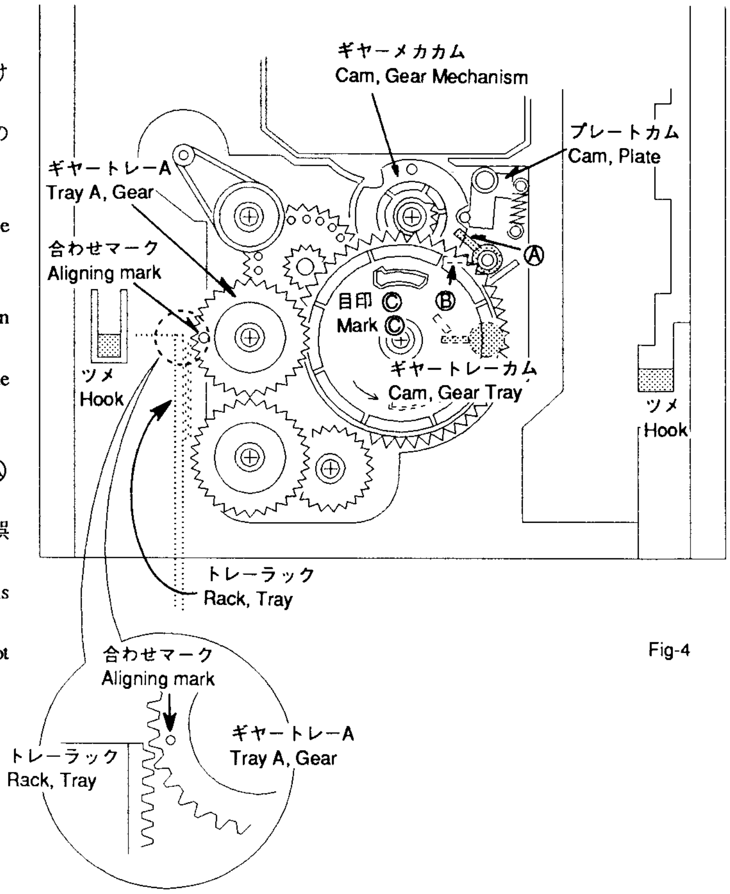

ギヤーメカカム
Cam, Gear Mechanism
プレートカム
Cam, Plate
ギヤートレーA
Tray A, Gear
合わせマーク
Aligning mark
Ⓐ
目印 Ⓒ
Mark Ⓒ
Ⓑ
ギヤートレーカム
Cam, Gear Tray
ツメ
Hook
ツメ
Hook
トレーラック
Rack, Tray
合わせマーク
Aligning mark
ギヤートレーA
Tray A, Gear
トレーラック
Rack, Tray

Fig-4

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は “REFERENCE NAME LIST” を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
IC			
	87-002-950-010	1H	IC, BA3826S
	87-002-639-080	1H	IC, BA6296FP
	87-002-967-080	1B	IC, BU4052BF
	87-002-901-080	1B	IC, BU4094BF
	87-020-793-080	1C	IC, CXA-1081M
	87-020-794-110	1H	IC, CXA-1082BQ
	87-001-944-010	2P	IC, CXD-1167Q
	87-001-874-010	1D	IC, HA12134A
	87-001-942-010	1D	IC, LA1265G
	87-002-394-010	1B	IC, LB1641
	87-001-334-010	1B	IC, LB9051A
	87-002-607-010	1D	IC, LM7001
	87-017-311-080		IC, M65831 FP〈EXCEPT LH, K, D〉
	87-017-373-010	1D	IC, NJH32H380A
	87-020-758-010	1A	IC, NJM2068SD
	87-001-607-080	1A	IC, NJM4558M
	87-017-194-010	1E	IC, PLT104
	87-001-475-010	2M	IC, STK4132-2〈D〉
	87-020-966-010		IC, STK4142-2〈EXCEPT D〉
	87-020-446-010	1B	IC, TA7343AP
	87-002-641-010	1E	IC, TA8124P〈D, HD〉
	87-002-644-080	1E	IC, TDA1311 T
	82-NF5-634-210	2P	IC, UPD78044GF-023
	87-002-218-010		IC, XRC5451AP〈EXCEPT D〉
TRANSISTOR			
	89-502-115-080	1A	C-FET, 2SK211 GR〈K, E, Z, D, HD〉
	89-502-114-580	1A	C-FET, 2SK211Y GR〈K, E, Z, D, HD〉
	89-503-025-080	1A	C-FET, 2SK302 GR
	89-111-625-080	0E	C-TR, 2SA1162GR
	89-327-125-080	0E	C-TR, 2SC2712GR
	89-327-124-080	0E	C-TR, 2SC2712Y
	89-327-143-080	0E	C-TR, 2SC2714(O)
	89-333-266-080	0E	C-TR, 2SC3326B
	87-026-227-080	0E	C-TR, DTA114EK
	87-026-226-080	0E	C-TR, DTA143EK
	87-026-232-080	0E	C-TR, DTA144WK
	87-026-239-080	0E	C-TR, DTC114TK
	87-026-213-080	0E	C-TR, DTC114YK
	87-026-237-080	0E	C-TR, DTC124XK
	87-026-224-080	0E	C-TR, DTC143XK
	87-026-210-080	0E	C-TR, DTC144EK
	87-026-238-080	0E	C-TR, DTC144WK
	89-502-466-080	0E	FET, 2SK246BL
	89-502-464-080	0E	FET, 2SK246Y
	89-213-702-010	1A	TR, 2SB1370E
	89-113-187-880	0E	TR, 2SA1318TU
	87-026-462-080	0E	TR, 2SC1740S (RS)
	89-110-155-080	0E	TR, 2SA1015GR〈EXCEPT K, E, Z〉
	87-026-463-080	0E	TR, 2SA933S(RS)
	89-109-521-080	0E	TR, 2SA952K
	89-109-705-080	0E	TR, 2SA970GR〈EXCEPT K, E, Z〉
	89-213-292-080	1A	TR, 2SB1329, Q
	89-318-155-080	0E	TR, 2SC1815GR
	89-318-154-080	0E	TR, 2SC1815Y〈D, HD〉
	89-332-665-080	0E	TR, 2SC3266GR
	89-333-317-080	0E	TR, 2SC3331 T
	87-026-269-080	0E	TR, DTA114ES
	87-026-233-080	0E	TR, DTA114TK
	87-026-214-080	0E	TR, DTA114YS
	87-026-219-080	0E	TR, DTA144ES〈D, HD〉
	87-026-245-080	0E	TR, DTC114ES
	87-026-215-080	0E	TR, DTC114YS〈D, HD〉
DIODE			
	87-020-125-080	0E	C-DIODE, 1SS181
	87-020-027-080	0E	C-DIODE, 1SS184
	87-002-225-010	1B	DIODE, DBF 40C-K10
	87-002-836-080	0E	DIODE, 1A3-J
	87-017-377-050	0E	DIODE, 1SR35-100A〈EXCEPT K, E, Z〉
	87-020-691-080	0E	DIODE, 1SS132 T-72
	87-002-564-080	0E	DIODE, 1SS133 RA
	87-001-820-010		DIODE, GP15B(F)〈HR, K, E, Z〉
	87-027-900-010		VARI-CAP, 1SV147〈EXCEPT D, HD〉
	87-002-730-010	1A	VARI-CAP, SVC203 SPA〈D, HD〉
	87-001-914-080	0E	ZENER, UTZJ 6.2B
	87-017-122-050	0E	ZENER, HZS11A2L RA
	87-017-147-050	0E	ZENER, HZS33-2 RA
	87-017-086-050	0E	ZENER, HZS5A2 RA
	87-017-091-050	0E	ZENER, HZS5C1 RA
	87-002-640-080		ZENER, HZS5C1 RA〈EXCEPT LH, K, D〉
	87-001-290-050	0E	ZENER, HZS6B1L RA
	87-001-731-050	0E	ZENER, HZS6C2L RA
	87-001-936-050	0E	ZENER, HZS7A3L RA
	87-017-163-050	0E	ZENER, HZS9A1L RA
MAIN C.B			
TU101	81-MX4-620-010	1F	AM PACK 3, S〈EXCEPT K, E, Z〉
TU101	81-MX4-619-010		AM PACK 4〈K, E, Z〉
BPF731	82-794-697-010		FILTER ANTI BIRDIE〈Z〉
BPF831	87-030-105-010		FLTR, BPMB6A〈Z〉
C101	87-010-399-090	1C	CAP, E 3300-35 SME〈D〉
C101	87-016-055-090		CAP, E 3300-42HI-R〈EXCEPT D〉
C102	87-010-399-090	1C	CAP, E 3300-35 SME〈D〉
C102	87-016-055-090		CAP, E 3300-42HI-R〈EXCEPT D〉
C103	87-010-390-090	1B	CAP, E 3300-25 SME
C104	87-010-237-080		CAP, E 1000-16〈EXCEPT U, D, HD〉
C104	87-010-980-080	1A	CAP, E 330-16 FS〈U, D, HD〉
C105	87-010-101-080	0E	CAP, E 220-16 SME
C106	87-010-764-080	0E	CAP, E 47-63
C107	87-010-407-080		CAP, E 33-50〈U, HR〉
C107	87-010-384-080		CAP, E 100-25 SME〈K, E, Z〉
C107	87-010-385-080	0E	CAP, E 220-25〈D〉
C107	87-010-383-080		CAP, E 33-25 SME〈HE, LH〉
C107	87-010-392-080		CAP, E 33-35 SME〈HD〉
C108	87-010-408-080		CAP, E 47-50〈U, HR〉
C108	87-010-406-080		CAP, E 22-50 SME〈HD〉
C108	87-010-385-080	0E	CAP, E 220-25〈D〉
C108	87-010-260-080		CAP, E 47-25 SME〈HE, LH, K, E, Z〉
C109	87-010-263-080	0E	CAP, E 100-10
C110	87-010-263-080	0E	CAP, E 100-10
C111	87-010-370-080	0E	CAP, E 330-6.3 SME
C112	87-010-260-080	0E	CAP, E 47-25 SME〈EXCEPT HR〉
C112	87-016-130-080		CAP, E 47-25 KME〈HR〉
C113	87-010-403-080	0E	CAP, E 3.3-50 SME
C114	87-010-192-080	0E	C-CAP, S 0.022-50 F
C115	87-016-247-080	0E	C-CAP, 0.1-50F〈D〉
C116	87-012-140-080	0E	C-CAP, S 470P-50 CH
C117	87-010-405-080	0E	CAP, E 10-50 SME〈EXCEPT HR〉
C117	87-016-145-080		CAP, E 10-50 KME〈HR〉
C118	87-016-247-080	0E	C-CAP, 0.1-50F〈D〉
C119	87-015-883-080	0E	C-CAP, 0.022-25BK〈D〉
C120	87-015-883-080	0E	C-CAP, 0.022-25BK〈D〉
C205	87-016-073-080	0E	CAP, E 1-50 FX
C206	87-016-073-080	0E	CAP, E 1-50 FX
C207	87-010-401-080	0E	CAP, E 1-50 SME
C208	87-010-401-080	0E	CAP, E 1-50 SME
C209	87-010-197-080	0E	C-CAP, S 0.01-25 B
C210	87-010-197-080	0E	C-CAP, S 0.01-25 B
C211	87-010-400-080	0E	CAP, E 0.47-50 SME
C212	87-010-400-080	0E	CAP, E 0.47-50 SME
C213	87-010-402-080	0E	CAP, E 2.2-50 SME
C214	87-010-402-080	0E	CAP, E 2.2-50 SME
C215	87-010-181-080	0E	C-CAP, S 1800P-50 B
C216	87-010-181-080	0E	C-CAP, S 1800P-50 B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C217	87-010-401-080	0E	CAP, E 1-50 SME
C218	87-010-401-080	0E	CAP, E 1-50 SME〈EXCEPT HR〉
C218	87-016-141-080		CAP, E 1-50 KME〈HR〉
C221	87-010-400-080	0E	CAP, E 0. 47-50 SME
C222	87-010-400-080	0E	CAP, E 0. 47-50 SME
C223	87-016-130-080		CAP, E 47-25 KME〈HR, K, E, Z〉
C223	87-010-260-080	0E	CAP, E 47-25 SME〈HE, LH, U, D, HD〉
C224	87-010-260-080	0E	CAP, E 47-25 SME
C225	87-016-130-080		CAP, E 47-25 KME〈EXCEPT D, HD〉
C225	87-010-260-080	0E	CAP, E 47-25 SME〈D, HD〉
C226	87-016-130-080		CAP, E 47-25 KME〈EXCEPT D, HD〉
C226	87-010-260-080	0E	CAP, E 47-25 SME〈D, HD〉
C227	87-012-368-080	0E	C-CAP, S 0. 1-50 F
C228	87-012-368-080	0E	C-CAP, S 0. 1-50 F
C229	87-012-361-080	0E	C-CAP, S 0. 056-25 Y
C230	87-012-361-080	0E	C-CAP, S 0. 056-25 Y
C231	87-010-178-080	0E	C-CAP, S 1000P-50 B〈D〉
C231	87-010-184-080		C-CAP, S 3300P-50 B〈Z〉
C232	87-010-178-080	0E	C-CAP, S 1000P-50 B〈D〉
C232	87-010-184-080		C-CAP, S 3300P-50 B〈Z〉
C233	87-010-546-080	0E	CAP, E 0. 33-50 SME〈EXCEPT HR〉
C233	87-016-292-080		CAP, E 0. 33-50 KME〈HR〉
C234	87-010-263-080	0E	CAP, E 100-10〈EXCEPT HR〉
C234	87-016-123-080		CAP, E 100-10 KME〈HR〉
C236	87-010-408-080	0E	CAP, E 47-50 SME
C237	87-010-403-080	0E	CAP, E 3. 3-50 SME
C238	87-010-403-080	0E	CAP, E 3. 3-50 SME
C241	87-010-197-080		C-CAP, S 0. 01-25 B〈Z〉
C242	87-010-197-080		C-CAP, S 0. 01-25 B〈Z〉
C243	87-010-154-080	0E	C-CAP, S 10P-50 CH
C244	87-010-154-080	0E	C-CAP, S 10P-50 CH
C245	87-010-322-080	0E	C-CAP, S 100P-50 CH
C246	87-010-322-080	0E	C-CAP, S 100P-50 CH
C253	87-010-260-080	0E	CAP, E 47-25 SME
C303	87-012-156-080	0E	C-CAP, S 220P-50 CH
C304	87-012-156-080	0E	C-CAP, S 220P-50 CH
C305	87-010-189-080	0E	C-CAP, S 8200P-50 B
C306	87-010-189-080	0E	C-CAP, S 8200P-50 B
C309	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C310	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C311	87-010-426-080	0E	C-CAP, S 0. 012-25 B
C312	87-010-426-080	0E	C-CAP, S 0. 012-25 B
C313	87-010-192-080	0E	C-CAP, S 0. 022-50 F
C314	87-010-260-080	0E	CAP, E 47-25 SME
C351	87-012-154-080	0E	C-CAP, S 150P-50 CH
C352	87-012-154-080	0E	C-CAP, S 150P-50 CH
C353	87-012-145-080	0E	C-CAP, S 270P-50 CH
C354	87-012-145-080	0E	C-CAP, S 270P-50 CH
C355	87-010-260-080	0E	CAP, E 47-25 SME
C357	87-016-248-080	0E	C-CAP, 8200P-50 B
C358	87-010-189-080	0E	C-CAP, S 8200P-50 B
C361	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C362	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C363	87-010-213-080	0E	C-CAP, S 0. 015-25 B
C364	87-010-213-080	0E	C-CAP, S 0. 015-25 B
C365	87-015-883-080	0E	C-CAP, 0. 022-25 B K
C366	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C401	87-010-402-080	0E	CAP, E 2. 2-50 SME
C402	87-010-402-080	0E	CAP, E 2. 2-50 SME
C405	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C406	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C407	87-010-401-080	0E	CAP, E 1-50 SME
C408	87-010-401-080	0E	CAP, E 1-50 SME
C409	87-010-182-080	0E	C-CAP, S 2200P-50 B
C410	87-010-182-080	0E	C-CAP, S 2200P-50 B
C411	87-010-188-080	0E	C-CAP, S 6800P-50 B
C412	87-010-188-080	0E	C-CAP, S 6800P-50 B
C415	87-012-154-080	0E	C-CAP, S 150P-50 CH
C416	87-012-154-080	0E	C-CAP, S 150P-50 CH
C421	87-010-177-080	0E	C-CAP, S 820P-50 SL

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C422	87-010-177-080	0E	C-CAP, S 820P-50 SL
C451	87-012-156-080	0E	C-CAP, S 220P-50 CH
C452	87-012-156-080	0E	C-CAP, S 220P-50 CH
C453	87-010-178-080	0E	C-CAP, S 1000P-50 B
C455	87-010-178-080	0E	C-CAP, S 1000P-50 B
C456	87-010-260-080	0E	CAP, E 47-25 SME
C457	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C458	87-010-183-080	0E	C-CAP, S 2700P-50 B
C459	87-010-183-080	0E	C-CAP, S 2700P-50 B
C460	87-010-183-080	0E	C-CAP, S 2700P-50 B
C470	87-010-196-080	0E	C-CAP, S 0. 1-25 F
C501	87-010-401-080	0E	CAP, E 1-50 SME
C502	87-010-401-080	0E	CAP, E 1-50 SME
C503	87-010-179-080	0E	C-CAP, S 1200P-50 B
C504	87-010-179-080	0E	C-CAP, S 1200P-50 B
C505	87-012-142-080	0E	C-CAP, S 0. 33-16 F
C506	87-012-142-080	0E	C-CAP, S 0. 33-16 F
C507	87-010-178-080	0E	C-CAP, S 1000P-50 B
C508	87-010-178-080	0E	C-CAP, S 1000P-50 B
C509	87-010-371-080	0E	CAP, E 470-6. 3
C515	87-010-545-080	0E	CAP, E 0. 22-50 SME
C516	87-010-545-080	0E	CAP, E 0. 22-50 SME
C570	87-010-193-080	0E	C-CAP, S 0. 033-25 F
C571	87-010-193-080	0E	C-CAP, S 0. 033-25 F
C572	87-015-947-080	0E	C-CAP, 0. 018-25 B K
C581	87-010-405-080	0E	CAP, E 10-50 SME
C582	87-010-405-080	0E	CAP, E 10-50 SME
C590	87-010-196-080	0E	C-CAP, S 0. 1-25 F
C592	87-010-401-080	0E	CAP, E 1-50 SME
C593	87-010-401-080	0E	CAP, E 1-50 SME
C594	87-010-401-080	0E	CAP, E 1-50 SME
C595	87-010-374-080		CAP, E 47-10〈EXCEPT D〉
C601	87-010-401-080		CAP, E 1-50 SME〈EXCEPT D〉
C602	87-010-401-080		CAP, E 1-50 SME〈EXCEPT D〉
C603	87-010-192-080		C-CAP, S 0. 022-50 F〈EXCEPT D〉
C604	87-010-192-080		C-CAP, S 0. 022-50 F〈EXCEPT D〉
C605	87-012-154-080		C-CAP, S 150P-50 CH〈EXCEPT D〉
C606	87-012-154-080		C-CAP, S 150P-50 CH〈EXCEPT D〉
C607	87-010-197-080		C-CAP, S 0. 01-25 B〈EXCEPT D〉
C608	87-010-197-080		C-CAP, S 0. 01-25 B〈EXCEPT D〉
C609	87-010-401-080		CAP, E 1-50 SME〈EXCEPT D〉
C610	87-010-401-080		CAP, E 1-50 SME〈EXCEPT D〉
C611	87-010-404-080		CAP, E 4. 7-50 SME〈EXCEPT D〉
C612	87-010-404-080		CAP, E 4. 7-50 SME〈EXCEPT D〉
C615	87-010-183-080		C-CAP, S 2700P-50 B〈EXCEPT D〉
C616	87-010-183-080		C-CAP, S 2700P-50 B〈EXCEPT D〉
C617	87-012-155-080		C-CAP, S 180P-50 CH〈EXCEPT D〉
C618	87-012-155-080		C-CAP, S 180P-50 CH〈EXCEPT D〉
C619	87-010-192-080		C-CAP, S 0. 022-50 F〈EXCEPT D〉
C620	87-010-192-080		C-CAP, S 0. 022-50 F〈EXCEPT D〉
C621	87-010-400-080		CAP, E 0. 47-50 SME〈EXCEPT D〉
C622	87-010-400-080		CAP, E 0. 47-50 SME〈EXCEPT D〉
C623	87-010-404-080		CAP, E 4. 7-50 SME〈EXCEPT D〉
C624	87-010-404-080		CAP, E 4. 7-50 SME〈EXCEPT D〉
C628	87-010-404-080	0E	CAP, E 4. 7-50 SME
C630	87-010-405-080		CAP, E 10-50 SME〈EXCEPT D〉
C631	87-010-401-080		CAP, E 1-50 SME〈EXCEPT D〉
C632	87-010-401-080		CAP, E 1-50 SME〈EXCEPT D〉
C633	87-010-101-080		CAP, E 220-16 SME〈EXCEPT D〉
C635	87-010-405-080		CAP, E 10-50 SME〈EXCEPT D〉
C636	87-010-404-080	0E	CAP, E 4. 7-50 SME
C641	87-010-405-080		CAP, E 10-50 SME〈EXCEPT D〉
C642	87-010-405-080		CAP, E 10-50 SME〈EXCEPT D〉
C700	87-010-221-080	0E	CAP, E 470-10
C701	87-010-384-080	0E	CAP, E 100-25 SME
C702	87-010-404-080	0E	CAP, E 4. 7-50 SME
C703	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C705	87-010-248-080	0E	CAP, E 220-10 SME
C706	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C707	87-010-197-080	0E	C-CAP, S 0. 01-25 B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C708	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C709	87-010-313-080	0E	C-CAP, S 18P-50 CH〈D〉
C710	87-010-312-080		C-CAP, S 15P-50 CH〈EXCEPT D〉
C710	87-010-316-080	0E	C-CAP, S 33P-50 CH〈D〉
C711	87-010-213-080	0E	C-CAP, S 0. 015-25 B〈EXCEPT U〉
C711	87-010-192-080		C-CAP, S 0. 022-50 F〈U〉
C712	87-010-213-080	0E	C-CAP, S 0. 015-25 B〈EXCEPT U〉
C712	87-010-192-080		C-CAP, S 0. 022-50 F〈U〉
C713	87-010-184-080	0E	C-CAP, S 3300P-50 B
C714	87-010-184-080	0E	C-CAP, S 3300P-50 B
C715	87-010-179-080	0E	C-CAP, S 1200P-50 B
C716	87-010-179-080	0E	C-CAP, S 1200P-50 B
C719	87-010-196-080	0E	C-CAP, S 0. 1-25 F
C720	87-012-154-080	0E	C-CAP, S 150P-50 CH
C721	87-010-401-080	0E	CAP, E 1-50 SME
C722	87-010-401-080	0E	CAP, E 1-50 SME
C723	87-010-405-080	0E	CAP, E 10-50 SME
C724	87-014-057-080	0E	CAP, PP 1000P-100 J
C725	87-010-401-080	0E	CAP, E 1-50 SME
C726	87-010-403-080	0E	CAP, E 3. 3-50 SME
C727	87-010-248-080	0E	CAP, E 220-10 SME
C728	87-010-402-080		CAP, E 2. 2-50 SME〈Z〉
C729	87-010-402-080		CAP, E 2. 2-50 SME〈Z〉
C731	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C732	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C734	87-010-322-080	0E	C-CAP, S 100P-50 CH
C741	87-010-402-080	0E	CAP, E 2. 2-50 SME
C742	87-012-157-080	0E	C-CAP, S 330P-50 CH
C743	87-010-382-080	0E	CAP, E 22-25 SME
C744	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C745	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C746	87-010-401-080	0E	CAP, E 1-50 SME
C747	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C748	87-010-404-080	0E	CAP, E 4. 7-50 SME
C749	87-010-405-080	0E	CAP, E 10-50 SME
C750	87-010-544-080	0E	CAP, E 0. 1-50
C751	87-010-403-080	0E	CAP, E 3. 3-50 SME
C752	87-010-197-080		C-CAP, S 0. 01-25 B〈EXCEPT D, HD〉
C753	87-015-632-080		C-CAP, 0. 015-50 B K〈EXCEPT D, HD〉
C754	87-010-260-080		CAP, E 47-25 SME〈EXCEPT D, HD〉
C755	87-010-401-080	0E	CAP, E 1-50 SME
C756	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C770	87-010-402-080	0E	CAP, E 2. 2-50 SME〈D, HD〉
C773	87-010-263-080	0E	CAP, E 100-10〈D, HD〉
C774	87-010-545-080	0E	CAP, E 0. 22-50 SME〈D, HD〉
C775	87-010-192-080	0E	C-CAP, S 0. 022-50 F〈D, HD〉
C776	87-010-404-080	0E	CAP, E 4. 7-50 SME〈D, HD〉
C777	87-010-194-080	0E	C-CAP, S 0. 047-25 F〈D, HD〉
C778	87-010-194-080	0E	C-CAP, S 0. 047-25 F〈D, HD〉
C779	87-010-263-080	0E	CAP, E 100-10〈D, HD〉
C780	87-010-197-080	0E	C-CAP, S 0. 01-25 B〈D, HD〉
C781	87-010-313-080	0E	C-CAP, S 18P-50 CH〈D, HD〉
C783	87-010-544-080	0E	CAP, E 0. 1-50〈D, HD〉
C784	87-010-544-080	0E	CAP, E 0. 1-50〈D, HD〉
C785	87-010-544-080	0E	CAP, E 0. 1-50〈D, HD〉
C786	87-010-544-080	0E	CAP, E 0. 1-50〈D, HD〉
C787	87-010-544-080	0E	CAP, E 0. 1-50〈D, HD〉
C788	87-010-544-080	0E	CAP, E 0. 1-50〈D, HD〉
C802	87-010-154-080		C-CAP, S 10P-50 CH〈Z〉
C802	87-010-151-080	0E	C-CAP, S 7P-50 CH〈EXCEPT Z〉
C804	87-010-151-080	0E	C-CAP, S 7P-50 CH〈EXCEPT Z〉
C805	87-010-150-080	0E	C-CAP, S 6P-50 CH
C806	87-010-145-080	0E	C-CAP, S 1P-50 CH
C806	87-010-148-080		C-CAP, S 4P-50 CH〈Z〉
C807	87-010-154-080	0E	C-CAP, S 10P-50 CH
C807	87-010-149-080		C-CAP, S 5P-50 CH〈Z〉
C808	87-010-322-080	0E	C-CAP, S 100P-50 CH
C809	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C810	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C811	87-010-149-080	0E	C-CAP, S 5P-50 CH

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C812	87-010-312-080		C-CAP, S 15P-50 CH〈EXCEPT D, HD〉
C812	87-010-146-080	0E	C-CAP, S 2P-50 CH〈D, HD〉
C813	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C814	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C818	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C819	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C820	87-010-260-080	0E	CAP, E 47-25 SME
C821	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C822	87-010-197-080	0E	C-CAP, S 0. 01-25 B〈EXCEPT Z〉
C823	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C826	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C827	87-010-145-080		C-CAP, S 1P-50 CH〈Z〉
C830	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C831	87-010-148-080		C-CAP, S 4P-50 CH〈EXCEPT Z, D, HD〉
C831	87-010-150-080		C-CAP, S 6P-50 CH〈Z〉
C831	87-010-152-080	0E	C-CAP, S 8P-50 CH〈D, HD〉
C833	87-018-134-080	0E	CAP, TC-U 0. 01-16〈HR, K, E, Z, D, HD〉
C835	87-010-154-080		C-CAP, S 10P-50 CH〈EXCEPT D, HD〉
C835	87-010-311-080	0E	C-CAP, S 12P-50 CH〈D, HD〉
C836	87-010-312-080		C-CAP, S 15P-50 CH〈EXCEPT D, HD〉
C836	87-010-314-080	0E	C-CAP, S 22P-50 CH〈D, HD〉
C837	87-010-312-080		C-CAP, S 15P-50 CH〈EXCEPT D, HD〉
C837	87-010-314-080	0E	C-CAP, S 22P-50 CH〈D, HD〉
C840	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C843	87-010-146-080	0E	C-CAP, S 2P-50 CH
C941	87-010-197-080		C-CAP, S 0. 01-25 B〈K, E, Z〉
C942	87-010-311-080		C-CAP, S 12P-50 CH〈K, E, Z〉
C944	87-010-154-080		C-CAP, S 10P-50 CH〈K, E, Z〉
C944	87-010-311-080	0E	C-CAP, S 12P-50 CH〈EXCEPT K, E, Z〉
C945	87-014-050-080		CAP, PP 510P-100 J〈K, E, Z〉
C946	87-010-401-080	0E	CAP, E 1-50 SME
C949	87-010-196-080		C-CAP, S 0. 1-25 F〈K, E, Z〉
C950	87-010-322-080	0E	C-CAP, S 100P-50 CH
C983	87-010-544-080	0E	CAP, E 0. 1-50
C990	87-010-197-080	0E	C-CAP, S 0. 01-25 B
CF741	82-794-670-010	1A	CF BFU450C4N
CF801	82-799-621-010		CF MS2-A〈Z〉
CF801	87-008-261-010	0E	FLTR, SFE10. 7MA5-A〈EXCEPT Z〉
CF802	87-008-261-010		FLTR, SFE10. 7MA5-A〈EXCEPT D, HD〉
CF802	87-008-261-010	0E	FLTR, SFE10. 7MA5-A〈D, HD〉
CF803	87-008-261-010		FLTR, SFE10. 7MA5-A〈Z〉
J250	87-049-855-010	1B	JACK, 6. 3 W/S
J253	80-MT3-616-010	1A	JACK, PIN 2P〈EXCEPT Z〉
J253	80-MT3-631-010		JACK, PIN 2P EARTH〈Z〉
J254	87-033-215-010	1B	TERMINAL SP 4P R (*)
J652	80-MT3-616-010	1A	JACK, PIN 2P
J801	81-631-646-010		ANT TERM 2P PAL〈K, E, Z〉
J801	82-NF5-621-019	1B	ANT TERM JBT0222〈EXCEPT K, E, Z〉
L201	87-005-366-010		COIL, 1UH〈Z〉
L202	87-005-366-010		COIL, 1UH〈Z〉
L401	82-194-634-080	1A	COIL, 10MH〈D〉
L401	87-005-580-080		COIL, 10MHJ〈EXCEPT D〉
L402	82-194-634-080	1A	COIL, 10MH〈D〉
L402	87-005-580-080		COIL, 10MHJ〈EXCEPT D〉
L403	82-231-622-080	1A	COIL, 22MH-J〈D〉
L403	87-005-525-080		COIL, 22MH-J〈EXCEPT D〉
L404	82-231-622-080	1A	COIL, 22MH-J〈D〉
L404	87-005-525-080		COIL, 22MH-J〈EXCEPT D〉
L451	87-007-300-010	1A	COIL, OSC BIAS 85K
L701	81-631-643-010	1A	COIL 1 POLE MPX
L702	81-631-643-010	1A	COIL 1 POLE MPX
L703	87-003-050-010	0E	COIL, 47UH〈D, HD〉
L741	81-631-611-010	1A	COIL, QUAD(SINGLE)
L742	87-008-491-010		FLTR, PACFAZ 450〈EXCEPT D, HD〉
L742	81-MT3-656-010	1B	FLTR, PCFMT-039 450〈D, HD〉
L801	87-006-219-010	0E	COIL, ANT FM 3/4T, S
L802	87-006-210-010		COIL, ANT FM 2 3/4T〈EXCEPT D, HD〉
L802	87-006-218-010	0E	COIL, ANT FM 3-3/4 TS〈D, HD〉
L803	87-006-200-010	0E	COIL, FM 3-1/2T, L5
L804	87-006-217-010	0E	COIL, FM 4-1/2TS〈D, HD〉

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
L804	87-006-201-010		COIL, FM3-1/2TS, L5〈EXCEPT D, HD〉
L805	87-003-098-050	0E	COIL, 2. 2UH RA
L806	87-008-427-010	1A	COIL FM IFT
L807	87-006-205-010		COIL, OSC FM (7K)〈EXCEPT D, HD〉
L807	87-006-232-010	1A	COIL, OSC FM(7K)D, 3〈D, HD〉
L831	87-006-201-010		COIL, RF FM3-1/2TS, L5〈Z〉
L832	87-003-098-050	0E	COIL, 2. 2UH RA
L941	87-006-208-010		COIL, ANT LW〈K, E, Z〉
L942	87-007-305-010		COIL OSC LW S〈K, E, Z〉
R105	87-022-050-080	0E	RESIS METAL 1W-0. 22J
R106	87-022-050-080	0E	RESIS METAL 1W-0. 22J
R243	87-022-391-080		RES, M/F 0. 47-1W J〈EXCEPT U, D〉
R243	87-022-050-080	0E	RESIS METAL 1W-0. 22J〈D〉
R244	87-022-391-080		RES, M/F 0. 47-1W J〈EXCEPT U, D〉
R244	87-022-050-080	0E	RESIS METAL 1W-0. 22J〈D〉
R257	87-022-391-080		RES, M/F 0. 47-1W J〈EXCEPT U, D〉
R258	87-022-391-080		RES, M/F 0. 47-1W J〈EXCEPT U, D〉
RY101	87-045-335-010	1D	RELAY, G5Z-2A 12VDC
SFR301	87-024-168-080	0E	SFR, 1K DIA6 V
SFR302	87-024-168-080	0E	SFR, 1K DIA6 V
SFR351	87-024-168-080	0E	SFR, 1K DIA6 V
SFR352	87-024-168-080	0E	SFR, 1K DIA6 V
SFR401	87-024-171-080	0E	SFR 4. 7K DIA6 V
SFR402	87-024-171-080	0E	SFR 4. 7K DIA6 V
SFR451	87-024-175-080	0E	SFR, 47K DIA6 V
SFR452	87-024-175-080	0E	SFR, 47K DIA6 V
SFR721	87-024-171-080	0E	SFR 4. 7K DIA6 V
SFR722	87-024-174-080	0E	SFR, 33K DIA6 V
TC701	87-011-221-080		TRIMER, 30P VCT 51〈EXCEPT D〉
TC801	87-011-219-080	1A	CAP TRIMMER 10P
TC802	87-011-219-080	1A	CAP TRIMMER 10P
TC803	87-011-219-080		CAP TRIMMER 10P VCT〈Z〉
TC942	87-011-221-080		TRIMER. 30P VCT51〈K, E, Z〉
VR651	82-NF5-660-010	1B	VR, 50KBX2 RK14K12A
W101	82-NF5-650-010	1B	F-CABEL, 7P-2. 5S〈EXCEPT E〉
W101	81-MX4-706-010		F-CABLE, 7P-2. 5 G〈E〉
X701	87-030-299-010	1B	VIB, XTAL 7. 2MHZ(KDS)〈D〉
X701	87-030-163-010		VIB, XTAL 7. 2MHZ(NDK)〈EXCEPT D〉
X702	87-030-283-010	1A	VIB, CER CSA3. 60MGF N〈D, HD〉

FRONT C. B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C101	87-010-178-080	0E	C-CAP, S 1000P-50 B
C201	87-010-404-040	0E	CAP, E 4. 7-50 SME
C202	87-010-404-040	0E	CAP, E 4. 7-50 SME
C203	87-010-408-040	0E	CAP, E 47-50 SME
C204	87-010-401-040	0E	CAP, E 1-50 SME
C205	87-010-263-040	0E	CAP, E 100-10
C206	87-010-248-040	0E	CAP, E 220-10 SME
C207	87-010-401-040	0E	CAP, E 1-50 SME
C208	87-010-196-080	0E	C-CAP, S 0. 1-25 F
C210	87-010-196-080	0E	C-CAP, S 0. 1-25 F
C211	87-010-178-080	0E	C-CAP, S 1000P-50 B
C212	87-010-405-040	0E	CAP, E 10-50 SME
C401	87-010-196-080	0E	C-CAP, S 0. 1-25 F
C501	87-010-384-040	0E	CAP, E 100-25 SME
C601	87-010-196-080	0E	C-CAP, S 0. 1-25 F
C602	87-010-196-080	0E	C-CAP, S 0. 1-25 F
C603	87-010-196-080	0E	C-CAP, S 0. 1-25 F
C604	87-010-179-080	0E	C-CAP, S 1200P-50 B
C605	87-010-401-040	0E	CAP, E 1-50 SME
C606	87-010-401-040	0E	CAP, E 1-50 SME
C607	87-012-157-080	0E	C-CAP, S 330P-50 CH
C608	87-010-401-040	0E	CAP, E 1-50 SME
C609	87-010-545-040	0E	CAP, E 0. 22-50 SME
C610	87-010-175-080	0E	C-CAP, S 560P-50 SL
C611	87-010-248-040	0E	CAP, E 220-10 SME
C612	87-010-196-080	0E	C-CAP, S 0. 1-25 F
C801	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C802	87-010-318-080	0E	C-CAP, S 47P-50 CH
C803	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C805	87-010-401-040	0E	CAP, E 1-50 SME
C806	87-010-405-040	0E	CAP, E 10-50 SME
FL101	82-NF5-632-010	2B	FL, BJ116GK
J601	81-MX4-630-010	1A	JACK, 3. 5
LED401	87-017-297-080	0E	LED, SEL1550CM TP7
LED402	87-017-297-080	0E	LED, SEL1550CM TP7
LED403	87-017-297-080	0E	LED, SEL1550CM TP7
LED404	87-017-297-080	0E	LED, SEL1550CM TP7
LED405	87-017-350-080	0E	LED, SEL1550CM
LED406	87-017-350-080	0E	LED, SEL1550CM
LED407	87-017-350-080	0E	LED, SEL1550CM
LED408	87-017-350-080	0E	LED, SEL1550CM
LED409	87-017-350-080	0E	LED, SEL1550CM
LED410	87-017-350-080	0E	LED, SEL1550CM
LED411	87-017-350-080	0E	LED, SEL1550CM
LED412	87-017-350-080	0E	LED, SEL1550CM
LED413	87-017-350-080	0E	LED, SEL1550CM
LED414	87-017-350-080	0E	LED, SEL1550CM
S301	87-036-215-080	0E	SW, TACT EVQ-21404M
S302	87-036-215-080		SW, TACT EVQ-21404M〈EXCEPT D〉
S303	87-036-215-080	0E	SW, TACT EVQ-21404M
S304	87-036-215-080	0E	SW, TACT EVQ-21404M
S305	87-036-215-080	0E	SW, TACT EVQ-21404M
S306	87-036-215-080	0E	SW, TACT EVQ-21404M
S307	87-036-215-080	0E	SW, TACT EVQ-21404M
S308	87-036-215-080	0E	SW, TACT EVQ-21404M
S309	87-036-215-080	0E	SW, TACT EVQ-21404M
S310	87-036-215-080	0E	SW, TACT EVQ-21404M
S311	87-036-215-080	0E	SW, TACT EVQ-21404M
S312	87-036-215-080	0E	SW, TACT EVQ-21404M
S315	87-036-215-080	0E	SW, TACT EVQ-21404M
S316	87-036-215-080	0E	SW, TACT EVQ-21404M
S317	87-036-215-080	0E	SW, TACT EVQ-21404M
S318	87-036-215-080	0E	SW, TACT EVQ-21404M
S319	87-036-215-080	0E	SW, TACT EVQ-21404M
S320	87-036-215-080	0E	SW, TACT EVQ-21404M
S321	87-036-215-080	0E	SW, TACT EVQ-21404M
S322	87-036-215-080	0E	SW, TACT EVQ-21404M
S323	87-036-215-080	0E	SW, TACT EVQ-21404M
S324	87-036-215-080	0E	SW, TACT EVQ-21404M
S325	87-036-215-080	0E	SW, TACT EVQ-21404M
S326	87-036-215-080	0E	SW, TACT EVQ-21404M
S327	87-036-215-080	0E	SW, TACT EVQ-21404M
VR601	82-NF5-659-010		VR, 10KB STRK15〈EXCEPT LH, K, D〉
VR602	81-MX4-637-010	1B	VR 10KA RK11K1130
X201	87-008-394-080	1A	CF CST 4. 19MGW

CD C. B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
	82-NF5-651-010	1B	CABLE FFC, 14P-1. 25
	82-NF5-652-010	1B	CABLE FFC, 7P-1. 25
C2	87-010-146-080	0E	C-CAP, S 2P-50 CH
C3	87-010-154-080	0E	C-CAP, S 10P-50 CH
C4	87-010-263-080	0E	CAP, E 100-10
C5	87-010-178-080	0E	C-CAP, S 1000P-50 B
C6	87-010-382-080	0E	CAP, E 22-25 SME
C7	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C8	87-010-248-080	0E	CAP, E 220-10 SME
C9	87-010-193-080	0E	C-CAP, S 0. 033-25 F
C10	87-010-188-080	0E	C-CAP, S 6800P-50 B
C11	87-010-188-080	0E	C-CAP, S 6800P-50 B
C12	87-010-193-080	0E	C-CAP, S 0. 033-25 F
C13	87-010-193-080	0E	C-CAP, S 0. 033-25 F
C14	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C15	87-010-263-080	0E	CAP, E 100-10
C16	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C17	87-010-248-080	0E	CAP, E 220-10 SME
C18	87-010-400-080	0E	CAP, E 0. 47-50 SME
C19	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C20	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C21	87-010-182-080	0E	C-CAP, S 2200P-50 B
C22	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C25	87-010-404-080	0E	CAP, E 4. 7-50 SME
C27	87-010-382-080	0E	CAP, E 22-25 SME
C28	87-010-382-080	0E	CAP, E 22-25 SME
C29	87-010-403-080	0E	CAP, E 3. 3-50 SME
C33	87-010-400-080	0E	CAP, E 0. 47-50 SME
C35	87-010-178-080	0E	C-CAP, S 1000P-50 B
C36	87-010-260-080	0E	CAP, E 47-25 SME
C37	87-010-401-080	0E	CAP, E 1-50 SME
C38	87-010-186-080	0E	C-CAP, S 4700P-50 B
C39	87-010-401-080	0E	CAP, E 1-50 SME
C40	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C42	87-010-318-080	0E	C-CAP, S 47P-50 CH
C43	87-010-318-080	0E	C-CAP, S 47P-50 CH
C44	87-010-314-080	0E	C-CAP, S 22P-50 CH
C45	87-010-315-080	0E	C-CAP, S 27P-50 CH
C51	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C52	87-010-263-080	0E	CAP, E 100-10
C53	87-010-318-080	0E	C-CAP, S 47P-50 CH
C54	87-010-318-080	0E	C-CAP, S 47P-50 CH
C55	87-010-318-080	0E	C-CAP, S 47P-50 CH
C56	87-010-196-080	0E	C-CAP, S 0. 1-25 F
C57	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C61	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C62	87-010-248-080	0E	CAP, E 220-10 SME
C65	87-010-402-080	0E	CAP, E 2. 2-50 SME
C66	87-010-402-080	0E	CAP, E 2. 2-50 SME
C69	87-010-178-080	0E	C-CAP, S 1000P-50 B
C70	87-010-178-080	0E	C-CAP, S 1000P-50 B
C80	87-010-196-080	0E	C-CAP, S 0. 1-25 F
C81	87-010-221-080	0E	CAP, E 470-10
C82	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C83	87-010-196-080	0E	C-CAP, S 0. 1-25 F
C84	87-010-196-080	0E	C-CAP, S 0. 1-25 F
C85	87-010-196-080	0E	C-CAP, S 0. 1-25 F
C86	87-010-248-080	0E	CAP, E 220-10 SME
C87	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C88	87-010-221-080	0E	CAP, E 470-10
C89	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C90	87-010-404-080	0E	CAP, E 4. 7-50 SME
C100	87-010-260-080	0E	CAP, E 47-25 SME
C101	87-010-196-080	0E	C-CAP, S 0. 1-25 F
C104	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C105	87-010-196-080	0E	C-CAP, S 0. 1-25 F
C109	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C110	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C111	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C112	87-010-384-080	0E	CAP, E 100-25 SME
C113	87-010-322-080	0E	C-CAP, S 100P-50 CH
C114	87-010-322-080	0E	C-CAP, S 100P-50 CH
C115	87-010-318-080	0E	C-CAP, S 47P-50 CH
C116	87-012-156-080	0E	C-CAP, S 220P-50 CH
C121	87-010-196-080	0E	C-CAP, S 0. 1-25 F
C131	87-010-404-080	0E	CAP, E 4. 7-50 SME
C132	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C133	87-010-401-080	0E	CAP, E 1-50 SME
C151	87-010-318-080	0E	C-CAP, S 47P-50 CH
EM1	87-008-474-080	0E	F-BEAD, EMI BL02RN1
L1	87-003-295-080	0E	COIL, 10UH
L2	87-003-295-080	0E	COIL, 10UH
MOT2	87-045-305-010	1F	MOTOR, RF-500TB(LOADING)
R28	87-022-359-080	0E	C-RES, S 22K-1/10W F
R29	87-022-359-080	0E	C-RES, S 22K-1/10W F
SFR1	87-024-173-080	0E	SFR, 22K DIA6 V
SFR2	87-024-173-080	0E	SFR, 22K DIA6 V
SFR3	87-024-173-080	0E	SFR, 22K DIA6 V
SFR4	87-024-168-080	0E	SFR, 1K DIA6 V
X1	87-030-270-080	1B	VIB, XTAL 16. 9344MHZ

AC C. B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
R100	87-022-394-050		RES, NF 0. 47-1/4W J〈EXCEPT D〉
R101	87-022-394-050		RES, NF 0. 47-1/4W J〈EXCEPT D〉
R101	87-025-466-050	0E	RES, NF 0. 68-1/4WJ〈D〉
R102	87-025-466-050	0E	RES, NF 0. 68-1/4W J〈D〉

AC VOLTAGE C. B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
	87-033-147-010		CLAMP, FUSE〈HE, LH, HR, HD〉
⚠ F101	87-035-414-010		FUSE, T2A 250V UL〈HE, LH, HD〉
⚠ F101	87-035-367-010		FUSE, 3. 15A 250V TE〈HR〉
⚠ S101	87-036-235-010		SW SLIDE ESD269〈HD〉
⚠ S101	87-036-229-010		SW, SL DP3C RA〈HE, LH, HR〉

VOLUME C. B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C701	87-010-178-080	0E	C-CAP, S 1000P-50 B
C702	87-010-178-080	0E	C-CAP, S 1000P-50 B
C703	87-010-154-080	0E	C-CAP, S 10P-50 CH
C704	87-010-154-080	0E	C-CAP, S 10P-50 CH
C705	87-010-322-080	0E	C-CAP, S 100P-50 CH
C706	87-010-322-080	0E	C-CAP, S 100P-50 CH
C707	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C708	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C709	87-010-184-080	0E	C-CAP, S 3300P-50 B
C710	87-010-184-080	0E	C-CAP, S 3300P-50 B
C711	87-012-154-080	0E	C-CAP, S 150P-50 CH
C712	87-012-154-080	0E	C-CAP, S 150P-50 CH
C713	87-012-365-080	0E	C-CAP, S 0. 027-25V BK
C714	87-012-365-080	0E	C-CAP, S 0. 027-25V BK
C715	87-010-318-080	0E	C-CAP, S 47P-50 CH
C716	87-010-318-080	0E	C-CAP, S 47P-50 CH
C717	87-010-186-080	0E	C-CAP, S 4700P-50 B
C718	87-010-186-080	0E	C-CAP, S 4700P-50 B
C719	87-010-994-080	0E	C-CAP, S 680P-50 CH
C720	87-010-994-080	0E	C-CAP, S 680P-50 CH
C721	87-010-402-040	0E	CAP, E 2. 2-50 SME
C722	87-010-402-040	0E	CAP, E 2. 2-50 SME
C723	87-010-401-040	0E	CAP, E 1-50 SME
C724	87-010-401-040	0E	CAP, E 1-50 SME
C725	87-010-320-080	0E	C-CAP, S 68P-50 CH
C726	87-010-320-080	0E	C-CAP, S 68P-50 CH
C727	87-010-248-040	0E	CAP, E 220-10 SME
C728	87-010-192-080	0E	C-CAP, S 0. 022-50 F
C729	87-010-248-040	0E	CAP, E 220-10 SME
C730	87-010-384-040	0E	CAP, E 100-25 SME
C731	87-010-197-080	0E	C-CAP, S 0. 01-25 B
C732	87-010-197-080	0E	C-CAP, S 0. 01-25 B
MVR701	82-MA3-635-010	2A	VR, 50KBX2 (MO)

SW C. B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
	82-NF5-653-010	1B	CABLE FFC, 6P-1. 25
LED415	87-017-351-080	0E	LED, SEL6814A
LED416	87-017-351-080	0E	LED, SEL6814A
LED417	87-017-351-080	0E	LED, SEL6814A
S313	87-036-215-080	0E	SW, TACT EVQ-21404M
S314	87-036-215-080	0E	SW, TACT EVQ-21404M

DECK-1 C. B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
CON501	87-009-350-019	0E	CONN, 7P PH H
SOL1	82-ZM1-618-010	1B	SOL ASSY, 27
SW4	87-036-110-010	0E	SW, PUSH SPPB 62
SW5	87-036-110-010	0E	SW, PUSH SPPB 62
SW6	87-036-110-010	0E	SW, PUSH SPPB 62

DECK-2 C. B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
CON502	87-009-353-019	0E	CONN, 10P PH H WHT

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
M2	87-045-348-010	1H	MOT, SHW 2L 70
SFR1	87-024-170-080	0E	SFR, 3.3K DIA 6V
SOL2	82-ZM1-618-010	1B	SOL ASSY, 27
SW2	87-036-110-010	0E	SW, PUSH SPPB 62
SW3	87-036-110-010	0E	SW, PUSH SPPB 62
SW4	87-036-110-010	0E	SW, PUSH SPPB 62
SW5	87-036-110-010	0E	SW, PUSH SPPB 62
SW6	87-036-110-010	0E	SW, PUSH SPPB 62

U/D SW C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
S2	87-036-271-010	1B	SW, LVR 1-2-2

OPEN SW C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
S1	87-036-271-010	1B	SW, LVR 1-2-2

CLOSE SW C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
S3	87-036-109-010	0E	SW, PUSH SPPB 61

PHOTO C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
PH1	87-026-573-010	1B	P-SNSR GP1S53V

RELAY-1 C.B

RELAY-2 C.B

MOTOR-1 C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
M1	87-045-305-010	1F	MOTOR, RF-500TB(TURN TABLE)

MOTOR-2 C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
M3	9X-262-513-210	2H	SLED MOTOR(SLED)
M4	+++	2H	SLED MOTOR(SPINDLE)
S4	91-572-085-110	1B	LEAF SW(INSIDE LIMIT)

ECHO C.B〈EXCEPT LH, K, D〉

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C381	87-010-544-080		CAP, E 0.1-50〈EXCEPT LH, K, D〉
C382	87-010-187-080		C-CAP, S 5600P-50〈EXCEPT LH, K, D〉
C383	87-010-175-080		C-CAP, S 560P-50〈EXCEPT LH, K, D〉
C384	87-015-785-080		C-CAP, 0.1-25 F〈EXCEPT LH, K, D〉
C385	87-010-260-080		CAP, E 47-25 SME〈EXCEPT LH, K, D〉
C388	87-015-785-080		C-CAP, 0.1-25 F〈EXCEPT LH, K, D〉
C389	87-010-187-080		C-CAP, S 5600P-50〈EXCEPT LH, K, D〉
C390	87-010-175-080		C-CAP, S 560P-50〈EXCEPT LH, K, D〉
C391	87-010-401-080		CAP, E 1-50 SME〈EXCEPT LH, K, D〉
C392	87-010-186-080		C-CAP, S 4700P-50〈EXCEPT LH, K, D〉
C393	87-010-263-080		CAP, E 100-10〈EXCEPT LH, K, D〉
C394	87-015-785-080		C-CAP, 0.1-25 F〈EXCEPT LH, K, D〉
C395	87-010-322-080		C-CAP, S 100P-50〈EXCEPT LH, K, D〉
C396	87-010-322-080		C-CAP, S 100P-50〈EXCEPT LH, K, D〉
X301	87-030-211-080		VIB, CER KBR-2.0MS〈EXCEPT LH, K, D〉

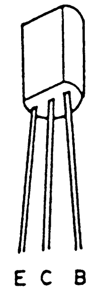
S C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C1	87-010-384-080	0E	CAP, E 100-25 SME
R1	88-121-103-080	0E	RES, 10K-1/8W J

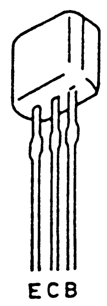
MISCELLANEOUS

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
⚠	87-034-749-010		AC CORD (H) W/PLUG〈LH, HD〉
⚠	87-050-016-010		AC CORD ASSY, E〈E, Z〉
⚠	87-050-034-010		AC CORD ASSY, E〈HE, HR〉
⚠	87-050-029-010		AC CORD ASSY, K 3P〈K〉
⚠	87-050-023-010		AC CORD ASSY, U-2〈U〉
⚠	87-050-026-019	1C	AC CORD, D 1800MM〈D〉
⚠	87-085-184-010	0E	BUSHING, AC CORD D〈LH, D, HD〉
⚠	87-085-185-010		BUSHING, AC CORD E〈HE, HR, K, E, Z〉
⚠	87-085-189-010		BUSHING, CORD U〈U〉
⚠ PT101	82-NF5-623-010	2Y	PT, 2NF5 D〈D〉
⚠ PT101	82-NF5-624-010		PT, 2NF5 HE〈HE, LH, HR〉
⚠ PT101	82-NF5-627-010		PT, 2NF5 U〈U, HD〉
⚠ PT101	82-NF5-625-010		PT, 2NF5(E, K)〈K, E, Z〉
PH	87-046-355-010	1F	HEAD, PH HADKH2529B(D1)
RPH	87-046-356-010	2A	HEAD, RPH HADKH5581B(D2)

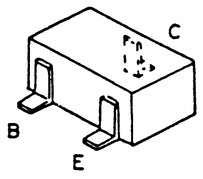
TRANSISTOR ILLUSTRATION



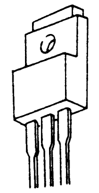
2SA952
2SA970
2SA1015
2SA1318
2SC1815
2SC3266
2SC3331



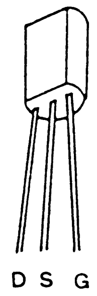
2SC1740
DTA114ES
DTA114TK
DTA114YS
DTA144ES
DTC114YS
2SA933



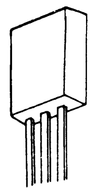
2SA1162
2SC2712
2SC2714
2SC3326
DTA114EK
DTA143EK
DTA144WK
DTC114TK
DTC114YK
DTC124
DTC143
DTC144



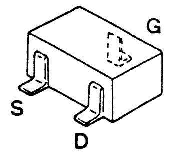
2SB1370



2SK246



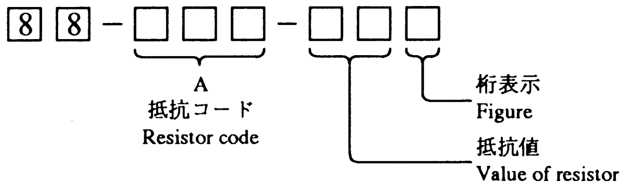
2SB1329



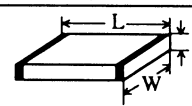
2SK211
2SK302

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

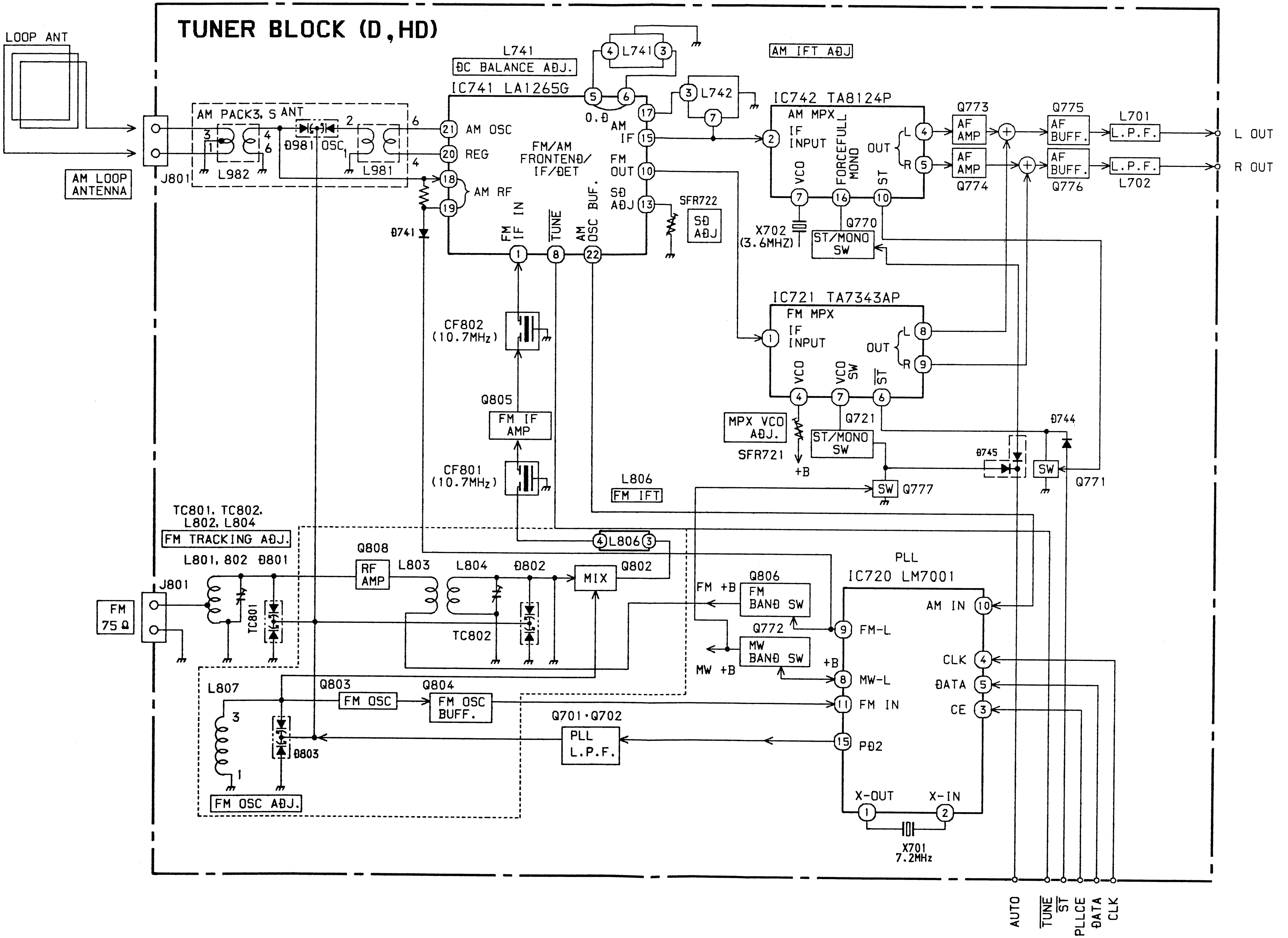
チップ抵抗部品コードの成り立ち
Chip resistor part coding



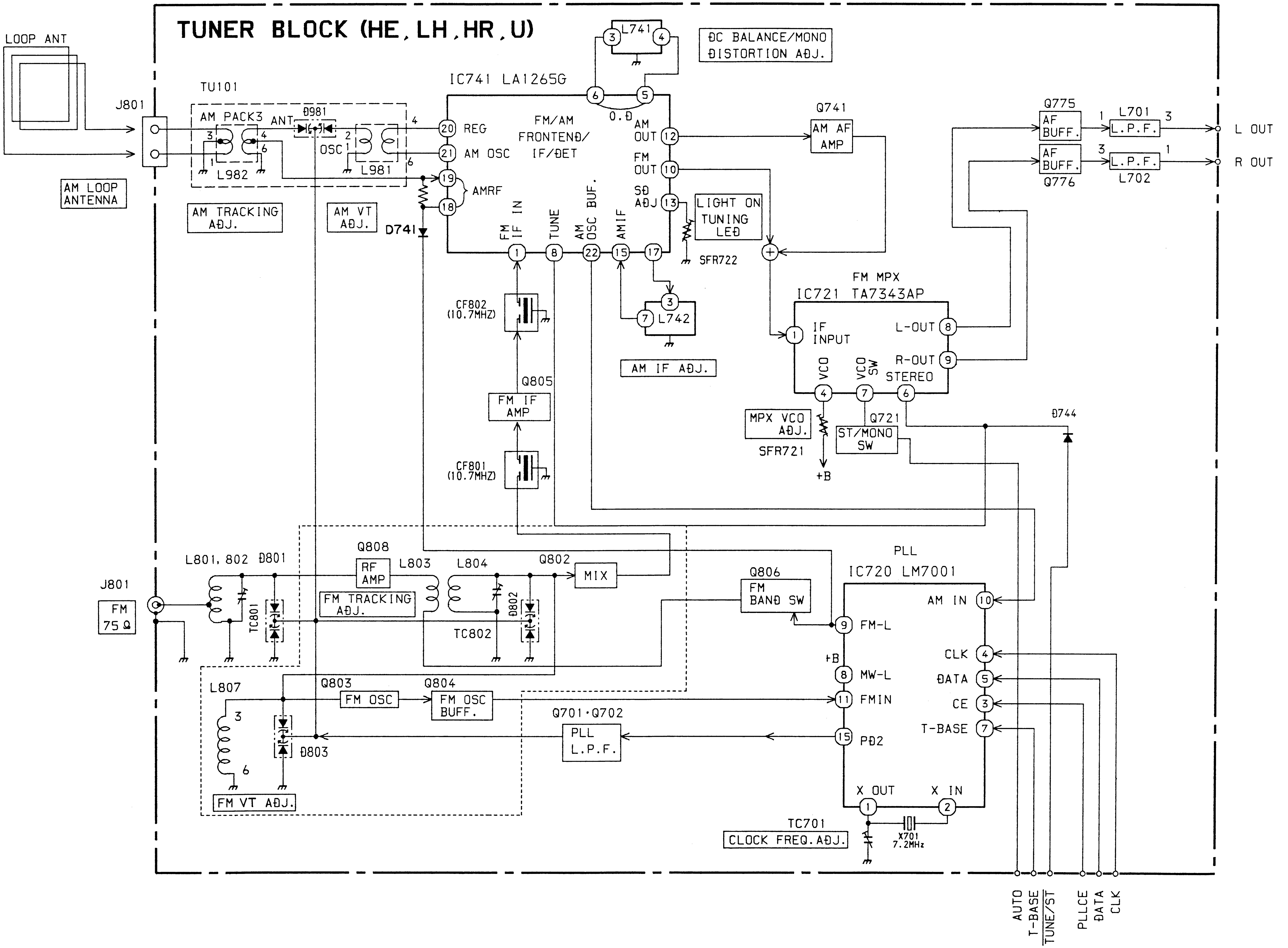
チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法 (mm)				Resistor code : A 抵抗コード : A
				Form/外形	L	W	t	
1/32W	1608	±5%	CJ	 L t W	1.6	0.8	0.35	108
1/10W	2125	±5%	CJ		2	1.25	1.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.5 ~0.7	128

BLOCK DIAGRAM—1 (TUNER: D, HD)

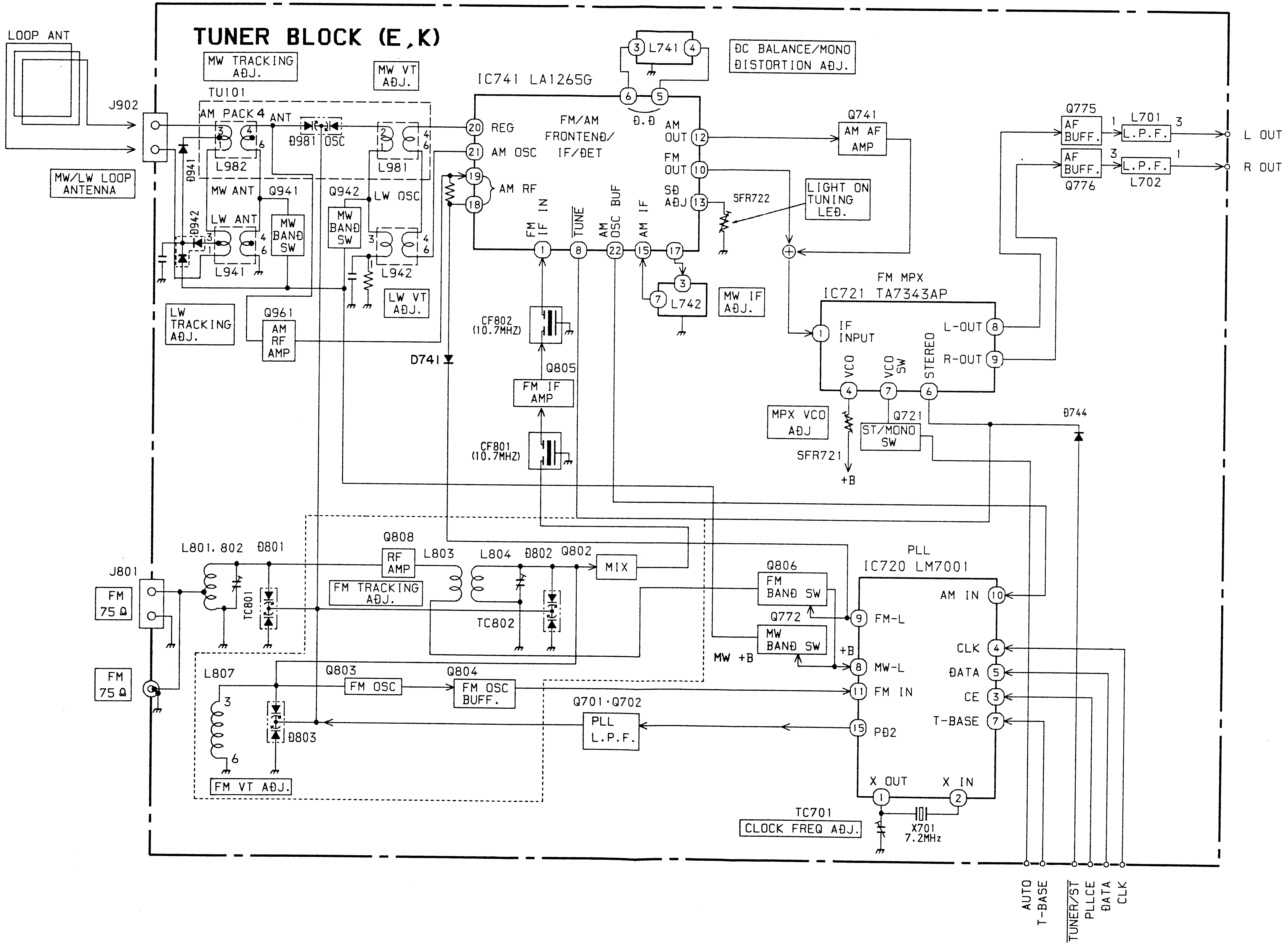

TUNER BLOCK (D,HD)
LOOP ANT
AM LOOP ANTENNA
J801
AM PACK3, S ANT
Ð981 OSC
L982
L981
L741
ÐC BALANCE AÐJ.
L741
L742
AM IFT AÐJ
IC741 LA1265G
AM OSC
REG
AM RF
FM/AM FRONTENÐ/ IF/ÐET
0.Ð
AM IF
FM OUT
SÐ AÐJ
FM IF IN
TUNE
AM OSC BUF.
Ð741
SFR722
SÐ AÐJ
IC742 TA8124P
AM MPX
IF INPUT
FORCEFULL MONO
VCO
ST
OUT
L
R
X702 (3.6MHZ)
Q770
ST/MONO SW
Q773
AF AMP
Q774
AF AMP
Q775
AF BUFF.
Q776
AF BUFF.
L701
L.P.F.
L702
L.P.F.
L OUT
R OUT
IC721 TA7343AP
FM MPX
IF INPUT
OUT
VCO
VCO SW
ST
MPX VCO AÐJ.
SFR721
+B
Q721
ST/MONO SW
Ð744
Ð745
SW
Q771
SW
Q777
CF802 (10.7MHz)
Q805
FM IF AMP
CF801 (10.7MHz)
L806
FM IFT
L806
TC801, TC802, L802, L804
FM TRACKING AÐJ.
L801, 802 Ð801
J801
FM 75 Ω
TC801
Q808
RF AMP
L803
L804
Ð802
TC802
MIX
Q802
L807
Q803
FM OSC
Q804
FM OSC BUFF.
Ð803
FM OSC AÐJ.
Q701·Q702
PLL L.P.F.
FM +B
Q806
FM BANÐ SW
Q772
MW BANÐ SW
MW +B
+B
PLL
IC720 LM7001
AM IN
FM-L
MW-L
FM IN
PÐ2
CLK
ÐATA
CE
X-OUT
X-IN
X701 7.2MHz
AUTO
TUNE
ST
PLLCE
ÐATA
CLK

BLOCK DIAGRAM—2 (TUNER: HE, LH, HR, U)

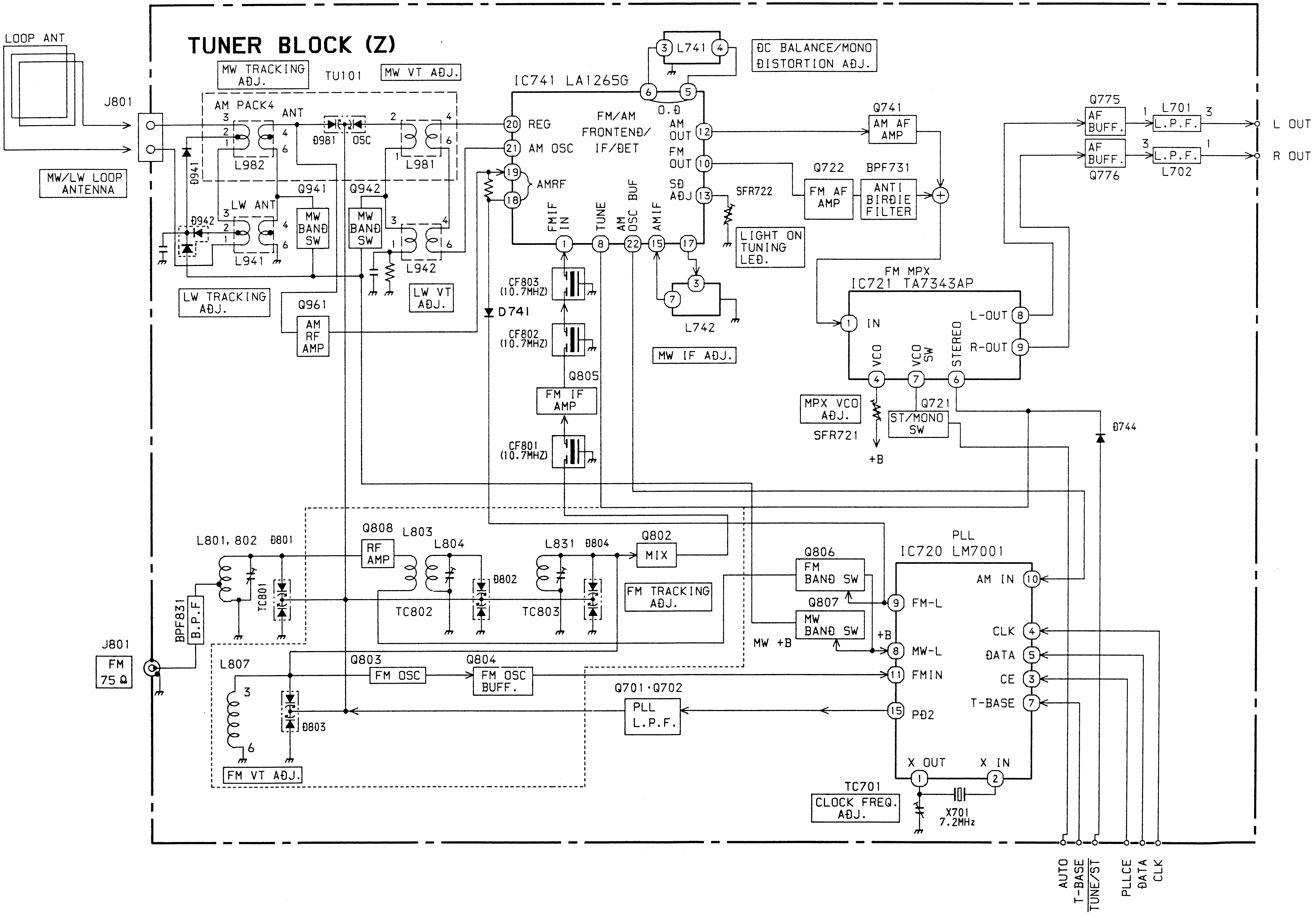


TUNER BLOCK (HE, LH, HR, U)
LOOP ANT
AM LOOP ANTENNA
J801
TU101
AM PACK3
ANT
Đ981
OSC
L982
L981
AM TRACKING ADJ.
AM VT ADJ.
D741
IC741 LA1265G
L741
DC BALANCE/MONO DISTORTION ADJ.
REG
AM OSC
AMRF
FM/AM FRONTEND/ IF/DET
0.D
AM OUT
FM OUT
SD ADJ
FM IF IN
TUNE
AM OSC BUF.
AMIF
LIGHT ON TUNING LED
SFR722
L742
AM IF ADJ.
CF802 (10.7MHZ)
Q805
FM IF AMP
CF801 (10.7MHZ)
Q741
AM AF AMP
FM MPX
IC721 TA7343AP
IF INPUT
L-OUT
R-OUT
VCO
VCO SW
STEREO
MPX VCO ADJ.
SFR721
+B
Q721
ST/MONO SW
Đ744
Q775
AF BUFF.
L701
L.P.F.
L OUT
AF BUFF.
Q776
L.P.F.
L702
R OUT
J801
FM 75 Ω
L801, 802
Đ801
TC801
Q808
RF AMP
L803
FM TRACKING ADJ.
L804
Q802
Đ802
TC802
MIX
Q806
FM BAND SW
PLL
IC720 LM7001
AM IN
FM-L
+B
MW-L
FMIN
PD2
CLK
DATA
CE
T-BASE
X OUT
X IN
L807
Q803
FM OSC
Q804
FM OSC BUFF.
Đ803
FM VT ADJ.
Q701·Q702
PLL L.P.F.
TC701
CLOCK FREQ.ADJ.
X701 7.2MHz
AUTO
T-BASE
TUNE/ST
PLLCE
DATA
CLK

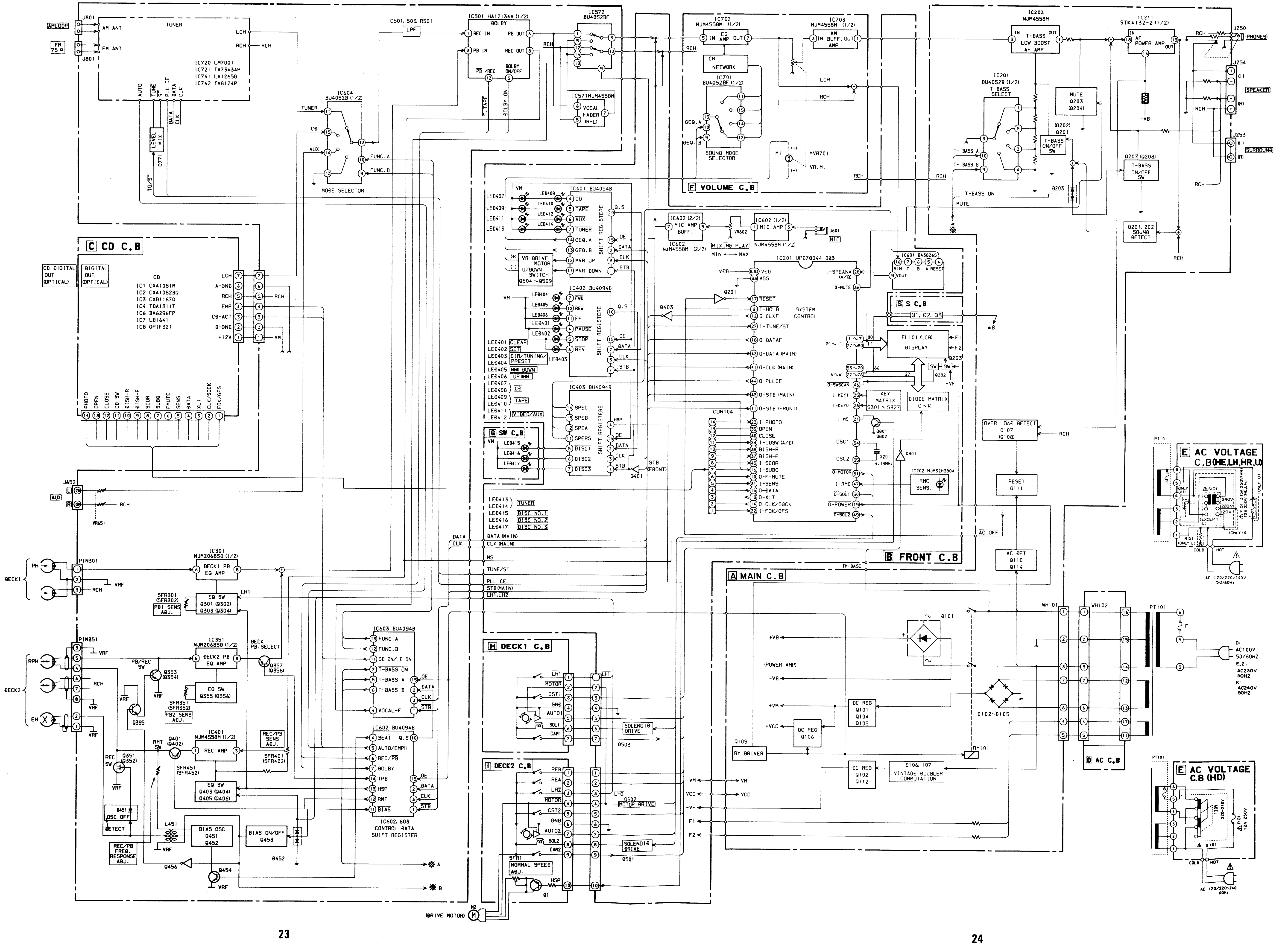
BLOCK DIAGRAM—3 (TUNER: E, K)


TUNER BLOCK (E,K)
LOOP ANT
J902
MW/LW LOOP ANTENNA
MW TRACKING ADJ.
MW VT ADJ.
TU101
AM PACK 4
ANT
Ð981
OSC
L982
L981
MW ANT
Q941
Q942
LW OSC
MW BAND SW
LW ANT
L941
L942
Ð941
Ð942
LW TRACKING ADJ.
Q961
AM RF AMP
LW VT ADJ.
IC741 LA1265G
L741
DC BALANCE/MONO DISTORTION ADJ.
REG
AM OSC
FM/AM FRONTEND/ IF/DET
AM RF
Ð.Ð
AM OUT
FM OUT
SD ADJ
FM IF IN
TUNE
AM OSC BUF
AM IF
SFR722
LIGHT ON TUNING LED.
L742
MW IF ADJ.
CF802 (10.7MHZ)
CF801 (10.7MHZ)
Q805
FM IF AMP
D741
Q741
AM AF AMP
Q775
AF BUFF.
Q776
L701
L702
L.P.F.
L OUT
R OUT
FM MPX
IC721 TA7343AP
IF INPUT
L-OUT
R-OUT
VCO
VCO SW
STEREO
MPX VCO ADJ
SFR721
+B
Q721
ST/MONO SW
Ð744
J801
FM 75 Ω
L801, 802
Ð801
TC801
Q808
RF AMP
L803
L804
Ð802
Q802
MIX
FM TRACKING ADJ.
TC802
L807
Q803
FM OSC
Q804
FM OSC BUFF.
Ð803
FM VT ADJ.
Q701·Q702
PLL L.P.F.
Q806
FM BAND SW
Q772
MW BAND SW
MW +B
PLL
IC720 LM7001
AM IN
FM-L
MW-L
FM IN
PD2
CLK
DATA
CE
T-BASE
X OUT
X IN
TC701
CLOCK FREQ ADJ.
X701 7.2MHz
AUTO
T-BASE
TUNER/ST
PLLCE
DATA
CLK

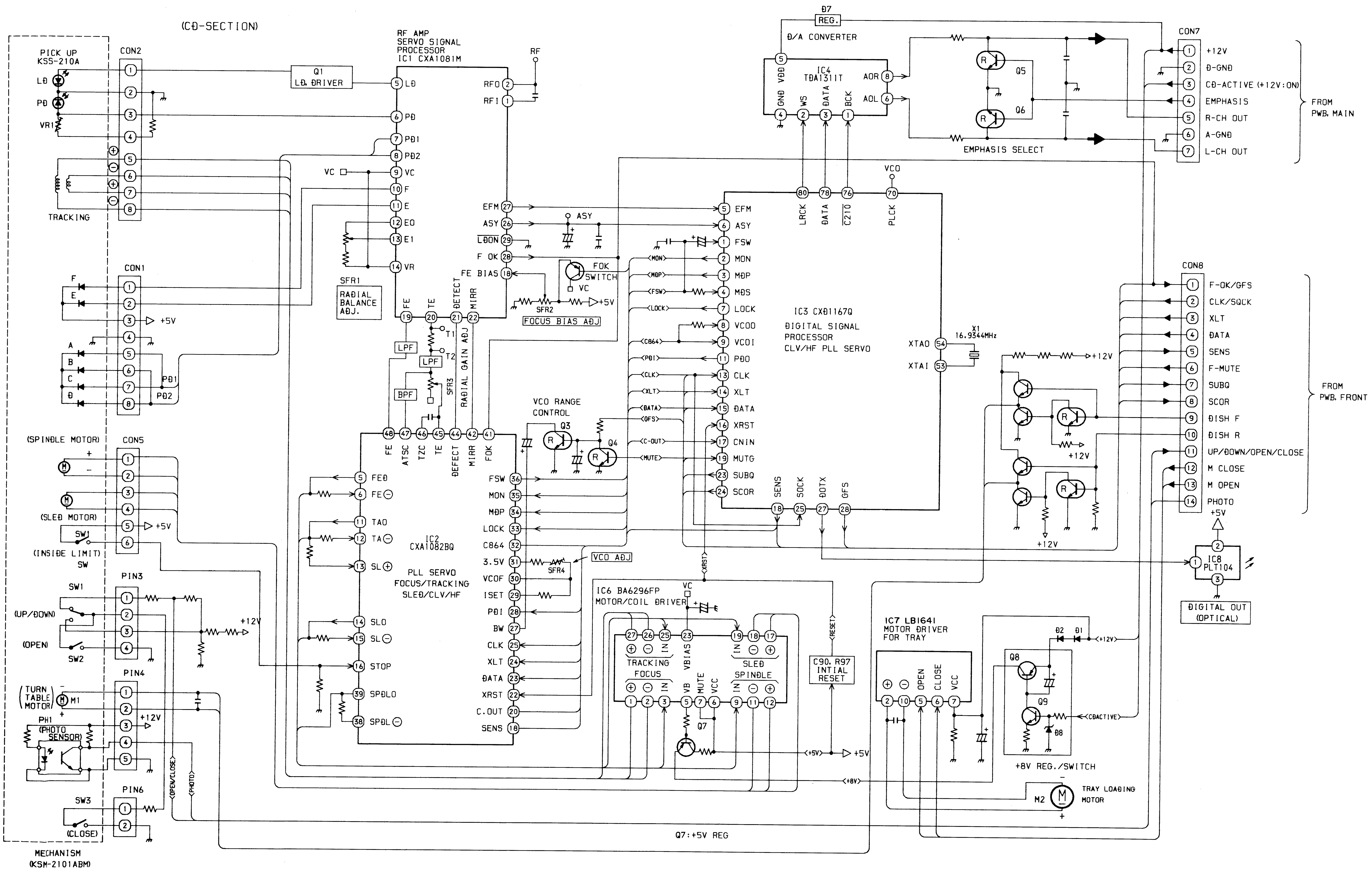
BLOCK DIAGRAM—4 (TUNER: Z)


TUNER BLOCK (Z)
LOOP ANT
J801
MW/LW LOOP ANTENNA
MW TRACKING ADJ.
TU101
MW VT ADJ.
AM PACK4
ANT
3
2
1
4
6
L982
Ð981
OSC
L981
Ð941
LW ANT
Ð942
L941
Q941
MW BAND SW
Q942
MW BAND SW
L942
LW TRACKING ADJ.
LW VT ADJ.
Q961
AM RF AMP
IC741 LA1265G
FM/AM FRONTEND/ IF/DET
20 REG
21 AM OSC
19
18
AMRF
0.D
AM OUT 12
FM OUT 10
SD ADJ 13
FMIF IN
TUNE
AM OSC BUF
AMIF
1
8
22
15
17
L741
ÐC BALANCE/MONO ÐISTORTION ADJ.
SFR722
LIGHT ON TUNING LEÐ.
L742
MW IF ADJ.
CF803 (10.7MHZ)
CF802 (10.7MHZ)
CF801 (10.7MHZ)
D741
Q805
FM IF AMP
Q741
AM AF AMP
Q722
FM AF AMP
BPF731
ANTI BIRDIE FILTER
FM MPX
IC721 TA7343AP
1 IN
L-OUT 8
R-OUT 9
VCO
VCO SW
STEREO
4
7
6
MPX VCO ADJ.
SFR721
+B
Q721
ST/MONO SW
Ð744
Q775
AF BUFF.
AF BUFF.
Q776
L701
L.P.F.
L.P.F.
L702
L OUT
R OUT
L801, 802
Ð801
BPF831 B.P.F
TC801
Q808
RF AMP
L803
L804
TC802
Ð802
L831
Ð804
TC803
Q802
MIX
FM TRACKING ADJ.
J801
FM 75 Ω
L807
3
6
Ð803
FM VT ADJ.
Q803
FM OSC
Q804
FM OSC BUFF.
Q701·Q702
PLL L.P.F.
Q806
FM BAND SW
Q807
MW BAND SW
MW +B
+B
PLL
IC720 LM7001
9 FM-L
8 MW-L
11 FMIN
15 PD2
AM IN 10
CLK 4
DATA 5
CE 3
T-BASE 7
X OUT 1
X IN 2
TC701
CLOCK FREQ. ADJ.
X701 7.2MHz
AUTO
T-BASE
TUNE/ST
PLLCE
DATA
CLK

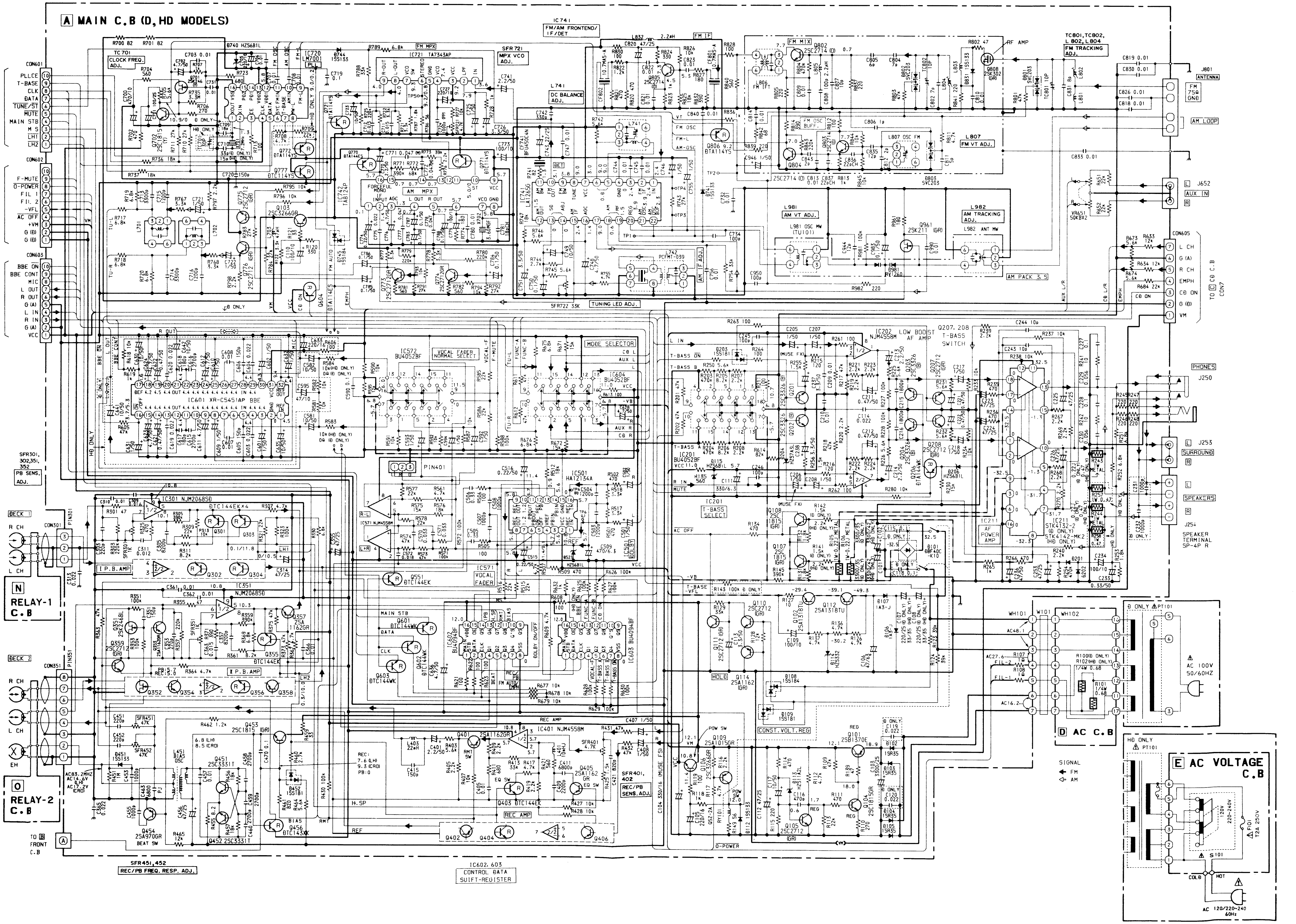
BLOCK DIAGRAM—5 (MAIN)


AM LOOP
FM 75 Ω
J801
AM ANT
FM ANT
TUNER
LCH
RCH
IC720 LM7001
IC721 TA7343AP
IC741 LA1265G
IC742 TA8124P
AUTO
TUNE
ST
PLL CE
DATA
CLK
LEVEL MIX
Q771
TU/ST
C501, 503, R501
LPF
IC501 HA12134A (1/2)
DOLBY
REC IN
PB OUT
PB IN
REC OUT
PB/REC
DOLBY ON/OFF
F.TAPE
DOLBY ON
IC572 BU4052BF
IC571 NJM4558M
VOCAL FADER (R-L)
IC604 BU4052B (1/2)
CD
AUX
FUNC.A
FUNC.B
MODE SELECTOR
IC702 NJM4558M (1/2)
EQ IN AMP OUT
IC703 NJM4558M (1/2)
AM IN BUFF. OUT AMP
CR NETWORK
IC701 BU4052BF (1/2)
GEQ.A
GEQ.B
SOUND MODE SELECTOR
M
MVR701
VR.M.
F VOLUME C.B
IC202 NJM4558M
T-BASS LOW BOOST AF AMP
IC211 STK4132-2 (1/2)
AF POWER AMP
J250
PHONES
J254
SPEAKER
J253
SURROUND
IC201 BU4052B (1/2)
T-BASS SELECT
MUTE Q203 (Q204)
-VB
(Q202) Q201
T-BASS ON/OFF SW
Q207 (Q208)
T-BASS ON/OFF SW
T-BASS A
T-BASS B
D203
T-BASS ON
MUTE
D201, 202 SOUND DETECT
C CD C.B
CD DIGITAL OUT (OPTICAL)
DIGITAL OUT (OPTICAL)
IC1 CXA1081M
IC2 CXA1082BQ
IC3 CXD1167Q
IC4 TDA1311T
IC6 BA6296FP
IC7 LB1641
IC8 GP1F32T
A-GND
EMP
CD-ACT
D-GND
+12V
VM
PHOTO
OPEN
CLOSE
CD SW
DISH-R
DISH-F
SCOR
SUBQ
FMUTE
SENS
DATA
XLT
CLK/SQCK
FOK/GFS
IC401 BU4094B
LED407
LED409
LED411
LED413
TAPE
GEQ.A
GEQ.B
VR DRIVE MOTOR
U/DOWN SWITCH
Q504~Q509
MVR UP
MVR DOWN
SHIFT REGISTERE
Q.S
OE
STB
IC402 BU4094B
FWD
REW
FF
PAUSE
STOP
LED401 CLEAR
LED402 SET
LED403 DIR/TUNING/PRESET
LED404 PRESET
LED405 DOWN
LED406 UP
LED407
LED408 CD
LED409
LED410 TAPE
LED411
LED412 VIDEO/AUX
IC403 BU4094B
SPEC
SPEB
SPEA
SPERS
DISC1
DISC2
DISC3
HSP
G SW C.B
LED415
LED416
LED417
Q401
STB (FRONT)
LED413 TUNER
LED414
LED415 DISC NO.1
LED416 DISC NO.2
LED417 DISC NO.3
IC602 (2/2) MIC AMP BUFF.
IC602 (1/2) MIC AMP
VR602
J601
MIC
IC602 NJM4558M (2/2)
MIXING PLAY
NJM4558M (1/2)
MIN — MAX
IC201 UPD78044-023
VDD
VSS
RESET
I-HOLD
O-CLKF
I-TUNE/ST
O-DATAF
O-DATA (MAIN)
O-CLK (MAIN)
O-PLLCE
O-STB (MAIN)
O-STB (FRONT)
SYSTEM CONTROL
Q201
Q403
CON104
I-PHOTO
OPEN
CLOSE
I-CDSW (A/D)
DISH-R
DISH-F
I-SCOR
I-SUBQ
O-F-MUTE
I-SENS
O-DATA
O-XLT
O-CLK/SQCK
I-FOK/GFS
I-SPEANA (A/D)
O-MUTE
O-SWSCAN
I-KEY1
I-KEY0
I-MS
OSC1
OSC2
X201 4.19MHz
Q801
Q802
Q301
O-MOTOR
I-RMC
O-SOL1
O-POWER
O-SOL2
IC601 BA3826S
RIN C B A RESET
VOUT
S S C.B
Q1, Q2, Q3
FL101 (LCD) DISPLAY
G1~11
A~W
Q202
-VF
KEY MATRIX S301~S327
DIODE MATRIX C~K
IC202 NJM32H380A
RMC SENS.
OVER LOAD DETECT Q107 (Q108)
RESET Q111
AC DET Q110 Q114
AC OFF
B FRONT C.B
TM-BASE
A MAIN C.B
DATA (MAIN)
CLK (MAIN)
MS
TUNE/ST
PLL CE
STB(MAIN)
LH1, LH2
J652
AUX
VR651
DECK1
PIN301
PH
VRF
IC301 NJM2068SD (1/2)
DECK1 PB EQ AMP
SFR301 (SFR302)
PB1 SENS ADJ.
EQ SW Q301 (Q302) Q303 (Q304)
DECK2
PIN351
RPH
EH
PB/REC SW
Q353 (Q354)
IC351 NJM2068SD (1/2)
DECK2 PB EQ AMP
DECK PB. SELECT
Q357 (Q358)
EQ SW Q355 (Q356)
SFR351 (SFR352)
PB2 SENS ADJ.
Q395
REC SW
Q351 (Q352)
RMT SW
Q401 (Q402)
IC401 NJM4558M (1/2)
REC AMP
REC/PB SENS ADJ.
SFR401 (SFR402)
SFR451 (SFR452)
EQ SW Q403 (Q404) Q405 (Q406)
D451 OSC OFF DETECT
L451
BIAS OSC Q451 Q452
BIAS ON/OFF Q453
REC/PB FREQ. RESPONSE ADJ.
Q456
Q454
D452
IC603 BU4094B
CD ON/LD ON
T-BASS ON
T-BASS A
T-BASS B
VOCAL-F
IC602 BU4094B
BEAT
AUTO/EMPH
REC/PB
DOLBY
IPB
HSP
RMT
BIAS
IC602, 603 CONTROL DATA SUIFT-REGISTER
H DECK1 C.B
LH1
MOTOR
CST1
GND
AUTO1
SOL1
CAM1
SOLENOID DRIVE
Q503
I DECK2 C.B
REB
REA
LH2
CST2
AUTO2
SOL2
CAM2
Q502 MOTOR DRIVE
Q501
SFR1 NORMAL SPEED ADJ.
Q1
M2
(DRIVE MOTOR)
WH101
WH102
D101
+VB
(POWER AMP)
-VB
+VM
+VCC
DC REG Q101 Q104 Q105
DC REG Q106
D102~D105
Q109
RY DRIVER
RY101
DC REG Q102 Q112
D106, 107 VINTAGE DOUBLER COMMUTATION
VM
VCC
-VF
F1
F2
D AC C.B
PT101
F
D: AC100V 50/60HZ
E,Z: AC230V 50HZ
K: AC240V 50HZ
E AC VOLTAGE C.B(HE,LH,HR,U)
S101
240V
220V
120V
(ONLY U)
(EXCEPT U)
R151
COLD
HOT
AC 120/220/240V 50/60Hz
E AC VOLTAGE C.B (HD)
120V
220~240V
T2A 250V
AC 120/220-240 60Hz

BLOCK DIAGRAM—6 (CD)


(CD-SECTION)
PICK UP
KSS-210A
LD
PD
VR1
TRACKING
CON2
CON1
CON5
PIN3
PIN4
PIN6
(SPINDLE MOTOR)
(SLED MOTOR)
SW1
(INSIDE LIMIT)
SW
(UP/DOWN)
(OPEN)
SW2
TURN TABLE MOTOR
M1
PH1
(PHOTO SENSOR)
SW3
(CLOSE)
MECHANISM
(KSM-2101ABM)
Q1
LD. DRIVER
RF AMP
SERVO SIGNAL
PROCESSOR
IC1 CXA1081M
RF
VC
SFR1
RADIAL BALANCE ADJ.
LPF
BPF
SFR3
RADIAL GAIN ADJ
DETECT
MIRR
FE BIAS
FOK SWITCH
SFR2
FOCUS BIAS ADJ
ASY
IC2
CXA1082BQ
PLL SERVO
FOCUS/TRACKING
SLED/CLV/HF
VCO RANGE
CONTROL
Q3
Q4
VCO ADJ
SFR4
IC3 CXD1167Q
DIGITAL SIGNAL
PROCESSOR
CLV/HF PLL SERVO
X1
16.9344MHz
XTAO
XTAI
IC4
TDA1311T
D/A CONVERTER
D7
REG.
Q5
Q6
EMPHASIS SELECT
CON7
+12V
D-GND
CD-ACTIVE (+12V:ON)
EMPHASIS
R-CH OUT
A-GND
L-CH OUT
FROM
PWB. MAIN
CON8
F-OK/GFS
CLK/SQCK
XLT
DATA
SENS
F-MUTE
SUBQ
SCOR
DISH F
DISH R
UP/DOWN/OPEN/CLOSE
M CLOSE
M OPEN
PHOTO
FROM
PWB. FRONT
IC8
PLT104
DIGITAL OUT
(OPTICAL)
IC6 BA6296FP
MOTOR/COIL DRIVER
TRACKING
FOCUS
SLED
SPINDLE
Q7
C90, R97
INTIAL
RESET
IC7 LB1641
MOTOR DRIVER
FOR TRAY
Q8
Q9
D1
D2
D8
+8V REG./SWITCH
M2
TRAY LOADING
MOTOR
Q7:+5V REG

SCHEMATIC DIAGRAM—1 (MAIN: D, HD)


A MAIN C.B (D,HD MODELS)
IC741 FM/AM FRONTEND/IF/DET
FM IF
FM MIX
RF AMP
TC801,TC802, L802,L804 FM TRACKING ADJ.
J801 ANTENNA
FM 75Ω GND
AM LOOP
TC701 CLOCK FREQ. ADJ.
IC720 LM7001
IC721 TA7343AP
FM MPX
SFR721 MPX VCO ADJ.
L741 DC BALANCE ADJ.
L807 FM VT ADJ.
L981 AM VT ADJ.
L982 AM TRACKING ADJ.
AM PACK 3.5
J652 AUX IN
SFR722 33K TUNING LED ADJ.
CON601
TO B FRONT C.B PIN101
PLLCE
T-BASE
CLK
DATA
TUNE/ST
MUTE
MAIN STB
M S
LH1
LH2
CON602
TO B FRONT C.B PIN102
F-MUTE
O-POWER
FIL 1
FIL 2
-VFL
AC OFF
+VM
G (B)
G (B)
CON603
TO B FRONT C.B PIN103
BBE ON
BBE CONT
MIC
L OUT
R OUT
G (A)
L IN
R IN
G (A)
VCC
IC742 TA8124P
IC601 XR-C5451AP BBE
IC572 BU4052BF VOCAL FADER NORMAL SELECT
MODE SELECTOR
IC604 BU4052BF
IC202 LOW BOOST NJM4558M AF AMP
Q207, 208 T-BASS SWITCH
IC201 BU4052BF T-BASS SELECT
IC211 STK4132-2 (D ONLY) STK4142-MK2 (HD ONLY) AF POWER AMP
PHONES J250
J253 SURROUND
SPEAKERS J254 SPEAKER TERMINAL SP-4P R
CON605 TO C CD C.B CON7
L CH
G (A)
R CH
EMPH
CD ON
G (D)
VM
SFR301, 302,351, 352 PB SENS. ADJ.
DECK 1
CON301
PIN301
IC301 NJM2068SD
I.P.B.AMP
IC351 NJM2068SD
DECK 2
CON351
PIN351
N RELAY-1 C.B
O RELAY-2 C.B
IC501 HA12134A
DOLBY
IC571 VOCAL FADER
PIN401
IC602 BU4094BF
IC603 BU4094BF
IC401 NJM4558M REC AMP
SFR401, 402 REC/PB SENS. ADJ.
BIAS OSC
BEAT SW
TO B FRONT C.B
SFR451,452 REC/PB FREQ. RESP. ADJ.
IC602, 603 CONTROL DATA SHIFT-REGISTER
CONST. VOLT. REG
HOLD
POW SW
REG
D AC C.B
WH101 WH102
D ONLY PT101
AC 100V 50/60HZ
SIGNAL FM AM
HD ONLY PT101
E AC VOLTAGE C.B
120V 220-240V
F101 T2A 250V
S101
COLD HOT
AC 120/220-240 60Hz

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A
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E
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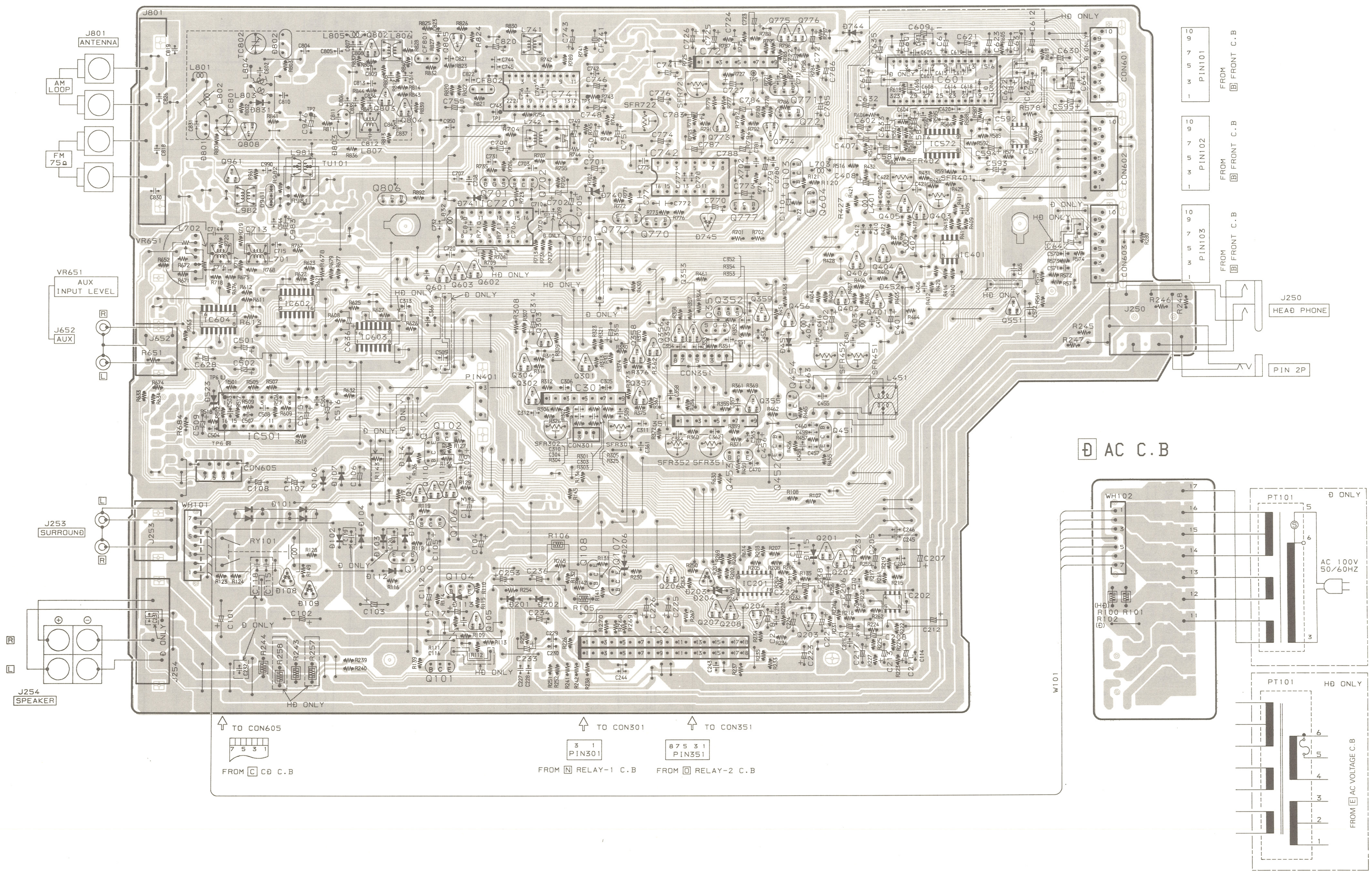
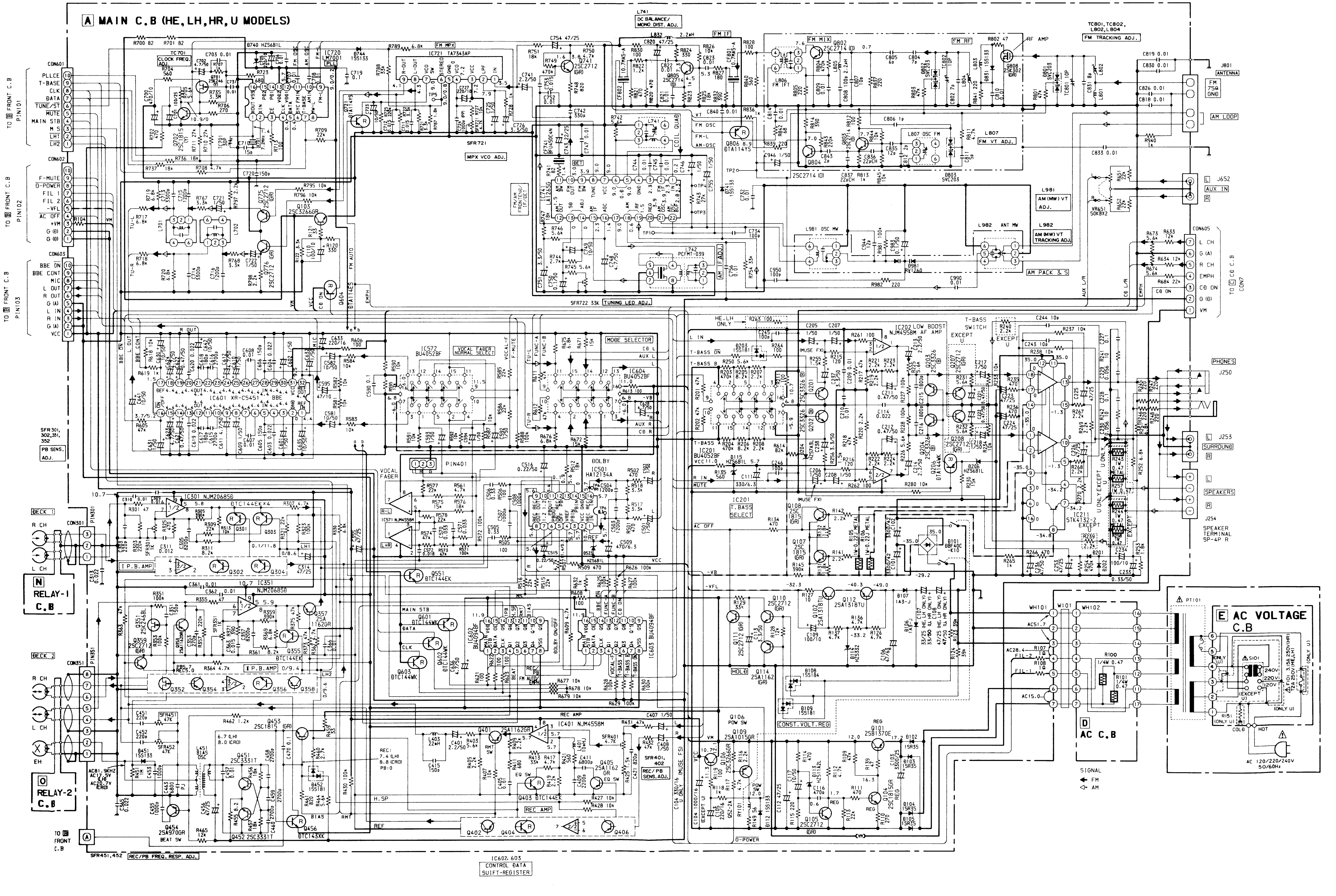
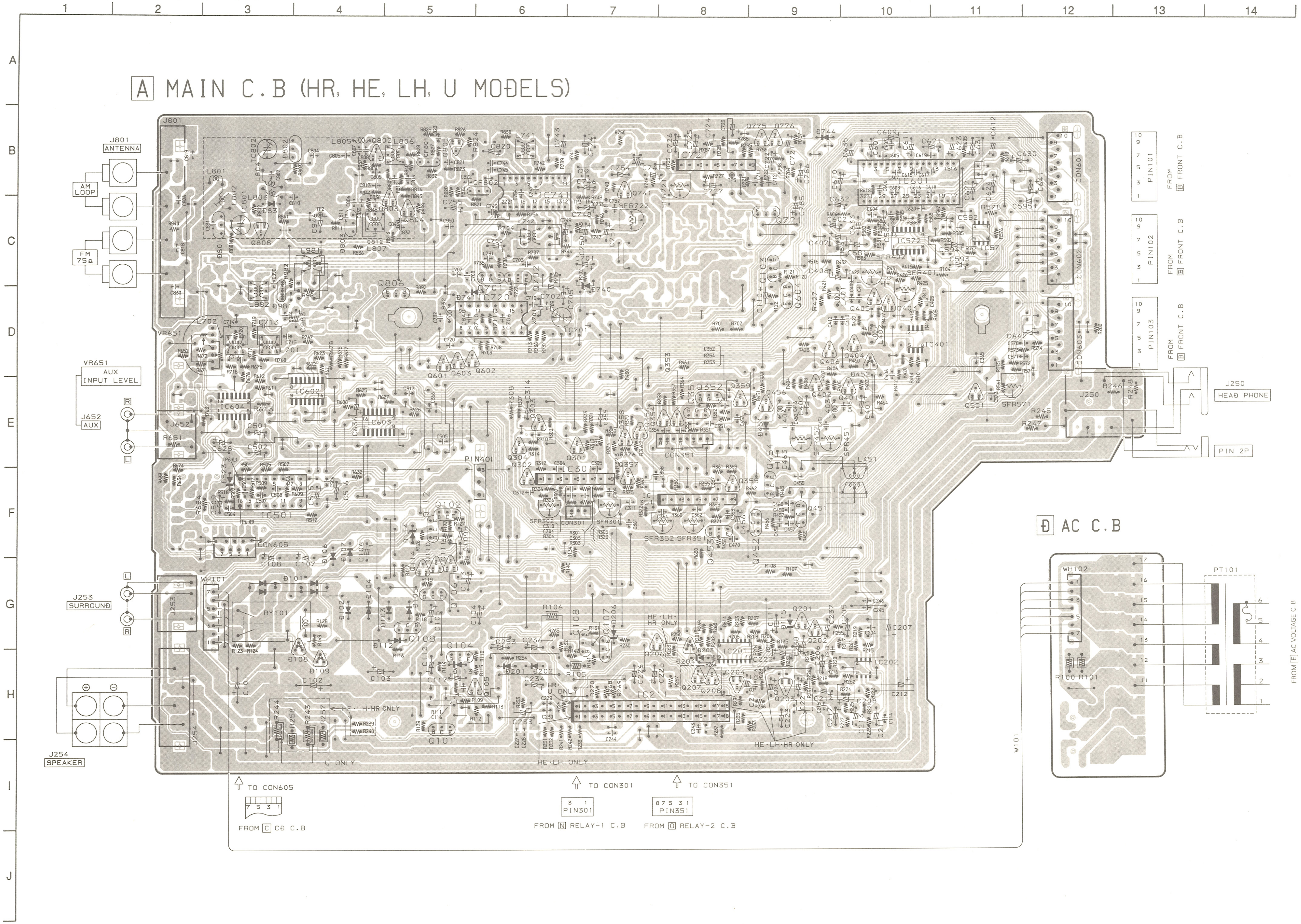
I
J

A MAIN C.B (Đ, HĐ MODELS)


J801
ANTENNA
AM LOOP
FM 75Ω
VR651
AUX INPUT LEVEL
J652
AUX
R
L
J253
SURROUND
L
R
J254
SPEAKER
R
L
J250
HEAD PHONE
PIN 2P
HĐ ONLY
Đ ONLY
PIN101
FROM B FRONT C.B
PIN102
FROM B FRONT C.B
PIN103
FROM B FRONT C.B
CON601
CON602
CON603
TO CON605
FROM C CĐ C.B
TO CON301
3 1
PIN301
FROM N RELAY-1 C.B
TO CON351
8 7 5 3 1
PIN351
FROM O RELAY-2 C.B
Đ AC C.B
WH102
(HĐ)
R100 R101
R102
(Đ)
W101
PT101
Đ ONLY
AC 100V
50/60HZ
PT101
HĐ ONLY
FROM E AC VOLTAGE C.B

SCHEMATIC DIAGRAM—2 (MAIN: HE, LH, HR, U)


A MAIN C.B (HE,LH,HR,U MODELS)
TO B FRONT C.B P.IN101
TO B FRONT C.B P.IN102
TO B FRONT C.B P.IN103
CON601
CON602
CON603
PLLCE
T-BASE
CLK
DATA
TUNE/ST
MUTE
MAIN STB
F-MUTE
D-POWER
FIL 1
FIL 2
-VFL
AC OFF
+VM
BBE ON
BBE CONT
MIC
L OUT
R OUT
L IN
R IN
VCC
TC701 CLOCK FREQ. ADJ.
IC720 LM7001 PLL
IC721 TA7343AP
FM MPX
SFR721 MPX VCO ADJ.
L741 DC BALANCE/ MONO DIST. ADJ.
FM IF
FM MIX
FM RF
RF AMP
TC801, TC802, L802, L804 FM TRACKING ADJ.
J801 ANTENNA
FM 75Ω GND
AM LOOP
IC741 LA1265
L741 COIL QUAD
L807 OSC FM
L807 FM VT ADJ.
L981 AM (MW) VT ADJ.
L981 OSC MW
L982 ANT MW
L982 AM (MW) VT TRACKING ADJ.
AM PACK & S
L742 PCFMT-039
AM IF ADJ.
SFR722 33K TUNING LED ADJ.
J652 AUX IN
CON605
L CH
R CH
EMPH
CD ON
VM
CON7
TO C CD C.B
IC601 XR-C5451
BBE
IC572 BU4052BF
VOCAL FADER NORMAL SELECT
MODE SELECTOR
IC604 BU4052BF
AUX R
CD R
SFR301, 302, 351, 352 PB SENS. ADJ.
PIN401
VOCAL FADER
IC571 NJM4558M
DOLBY IC501 HA12134A
IC301 NJM2068SD
DTC144EKx4
I.P.B. AMP
DECK 1
CON301
PIN301
N RELAY-1 C.B
IC351 NJM2068SD
II.P.B. AMP
DECK 2
CON351
PIN351
Q601 DTC144WK
MAIN STB
DATA
CLK
Q603 DTC144WK
Q602 DTC144WK
IC602 BU4094BF
IC603 BU4094BF
DOLBY ON/OFF
BEAT
REC/PB
FM AUTO
REC AMP
IC401 NJM4558M
SFR401, 402 REC/PB SENS. ADJ.
L451 BIAS OSC
Q451 2SC3331T
Q452 2SC3331T
Q454 2SA970GR BEAT SW
Q456 DTC143XK
BIAS
EQ SW
Q403 DTC144EK
REC AMP
H.SP
REF
O RELAY-2 C.B
TO B FRONT C.B
SFR451, 452 REC/PB FREQ. RESP. ADJ.
IC602, 603 CONTROL DATA SUIFT-REGISTER
HE, LH ONLY
L IN
T-BASS ON
T-BASS B
IC202 LOW BOOST NJM4558M AF AMP
T-BASS SWITCH EXCEPT U
IC201 BU4052BF
IC201 T.BASS SELECT
R IN
MUTE
AC OFF
IC211 STK4132-2
PHONES J250
J253 SURROUND
J254 SPEAKER TERMINAL SP-4P R
SPEAKERS
U ONLY
EXCEPT U
B101 BBF40C
-VB
-VFL
Q112 2SA1318TU
HOLD
Q114 2SA1162
CONST. VOLT. REG
Q106 PDW SW
Q109 2SA1015GR
D-POWER
REG
Q101 2SB1370E
Q104 2SC1815GR
Q105 2SC2712
WH101
W101
WH102
D AC C.B
R100 1/4W 0.47
E AC VOLTAGE C.B
PT101
S101
240V
220V
120V
(ONLY U)
(EXCEPT U)
COLD
HOT
AC 120/220/240V 50/60Hz
SIGNAL
← FM
← AM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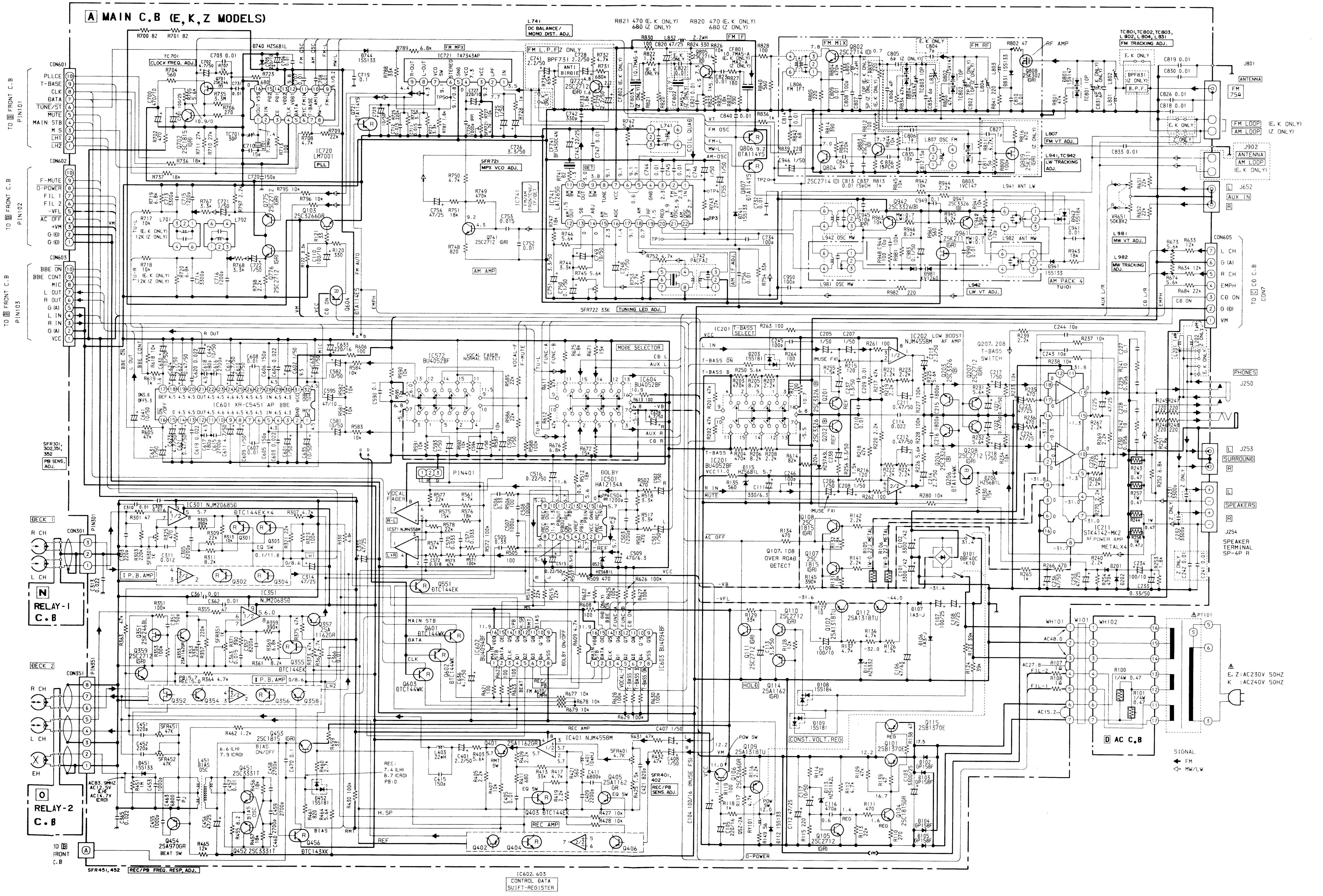
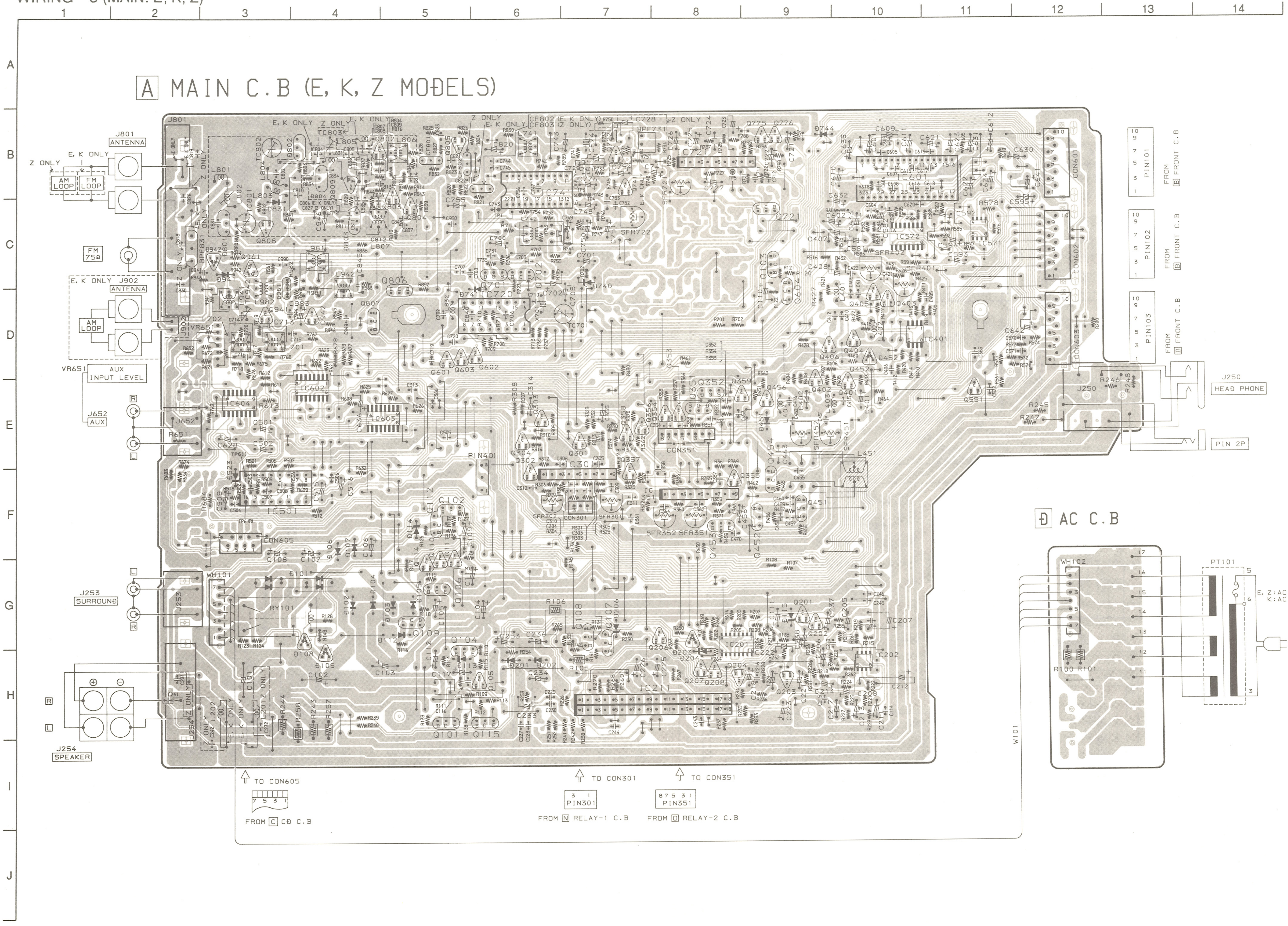
A
B
C
D
E
F
G
H
I
J
A MAIN C.B (HR, HE, LH, U MODELS)
J801
ANTENNA
AM LOOP
FM 75Ω
VR651
AUX INPUT LEVEL
J652
AUX
R
L
J253
SURROUND
J254
SPEAKER
⊕
⊖
IC801
IC802
IC741
IC720
IC601
IC602
IC603
IC604
IC572
IC401
IC501
IC201
IC202
IC211
CON601
CON602
CON603
CON605
CON301
CON351
PIN401
WH101
RY101
L451
SFR302
SFR301
SFR352
SFR351
SFR571
SFR401
SFR402
SFR451
SFR452
SFR722
J250
HEAD PHONE
PIN 2P
10
9
7
5
3
1
PIN101
FROM B FRONT C.B
PIN102
FROM B FRONT C.B
PIN103
FROM B FRONT C.B
HE·LH·HR ONLY
HE·LH·HR ONLY
HE·LH·HR ONLY
U ONLY
HE·LH ONLY
TO CON605
7 5 3 1
FROM C CD C.B
TO CON301
3 1
PIN301
FROM N RELAY-1 C.B
TO CON351
8 7 5 3 1
PIN351
FROM O RELAY-2 C.B
W101
Đ AC C.B
WH102
R100 R101
PT101
17
16
15
14
13
12
11
6
5
4
3
2
1
FROM E AC VOLTAGE C.B

SCHEMATIC DIAGRAM—3 (MAIN: E, K, Z)


A MAIN C.B (E,K,Z MODELS)
CON601
TO B FRONT C.B PIN101
PLLCE
T-BASE
CLK
DATA
TUNE/ST
MUTE
MAIN STB
M S
LH1
LH2
CON602
TO B FRONT C.B PIN102
F-MUTE
O-POWER
FIL 1
FIL 2
-VFL
AC OFF
+VM
G (B)
G (D)
CON603
TO B FRONT C.B PIN103
BBE ON
BBE CONT
MIC
L OUT
R OUT
G (A)
L IN
R IN
G (A)
VCC
TC701 CLOCK FREQ. ADJ.
IC720 LM7001 PLL
IC721 TA7343AP
FM MPX
L741 DC BALANCE/MONO DIST. ADJ.
FM L.P.F
SFR721 MPX VCO ADJ.
IC741 LA1265G
DET
COIL QUAD
FM OSC
FM IF
FM MIX
FM RF
RF AMP
TC801,TC802,TC803, L802,L804,L831 FM TRACKING ADJ.
J801
ANTENNA
FM 75Ω
FM LOOP (E, K ONLY)
AM LOOP (Z ONLY)
J902
ANTENNA
AM LOOP
(E, K ONLY)
L807 FM VT ADJ.
L941,TC942 LW TRACKING ADJ.
L941 ANT LW
L981 MW VT ADJ.
L982 MW TRACKING ADJ.
L942 LW VT ADJ.
AM PACK 4 TU101
AM AMP
SFR722 33K TUNING LED ADJ.
J652 AUX IN
CON605
TO C CD C.B CON7
L CH
G (A)
R CH
EMPH
CD ON
G (D)
VM
IC601 XR-C5451 AP BBE
IC572 BU4052BF VOCAL FADER NORMAL SELECT
IC604 BU4052BF
MODE SELECTOR
SFR301, 302,351, 352 PB SENS. ADJ.
IC201 T-BASS SELECT
IC202 LOW BOOST NJM4558M AF AMP
Q207, 208 T-BASS SWITCH
PHONES J250
IC211 STK4142-MK2 AF POWER AMP METAL×4
J253 SURROUND
SPEAKERS
J254 SPEAKER TERMINAL SP-4P R
Q107, 108 OVER ROAD DETECT
PIN401
IC571 NJM4558M VOCAL FADER
DOLBY IC501 HA12134A
DECK 1
R CH
L CH
CON301
PIN301
IC301 NJM2068SD
I.P.B.AMP
N RELAY-1 C.B
DECK 2
CON351
PIN351
IC351 NJM2068SD
O RELAY-2 C.B
EH
Q551 DTC144EK
MAIN STB
Q601 DTC144WK
DATA
CLK
Q603 DTC144WK
IC602 BU4094BF
IC603 BU4094BF
DOLBY
REC AMP
IC401 NJM4558M
SFR401, 402 REC/PB SENS. ADJ.
BIAS OSC
BEAT SW
BIAS ON/OFF
EQ SW
RMT SW
HOLD
CONST. VOLT. REG
O-POWER
WH101
W101
WH102
PT101
D AC C.B
E, Z :AC230V 50HZ
K :AC240V 50HZ
SIGNAL
← FM
⇦ MW/LW
TO B FRONT C.B
SFR451, 452 REC/PB FREQ. RESP. ADJ.
IC602, 603 CONTROL DATA SUIFT-REGISTER

A MAIN C.B (E, K, Z MODELS)

Đ AC C.B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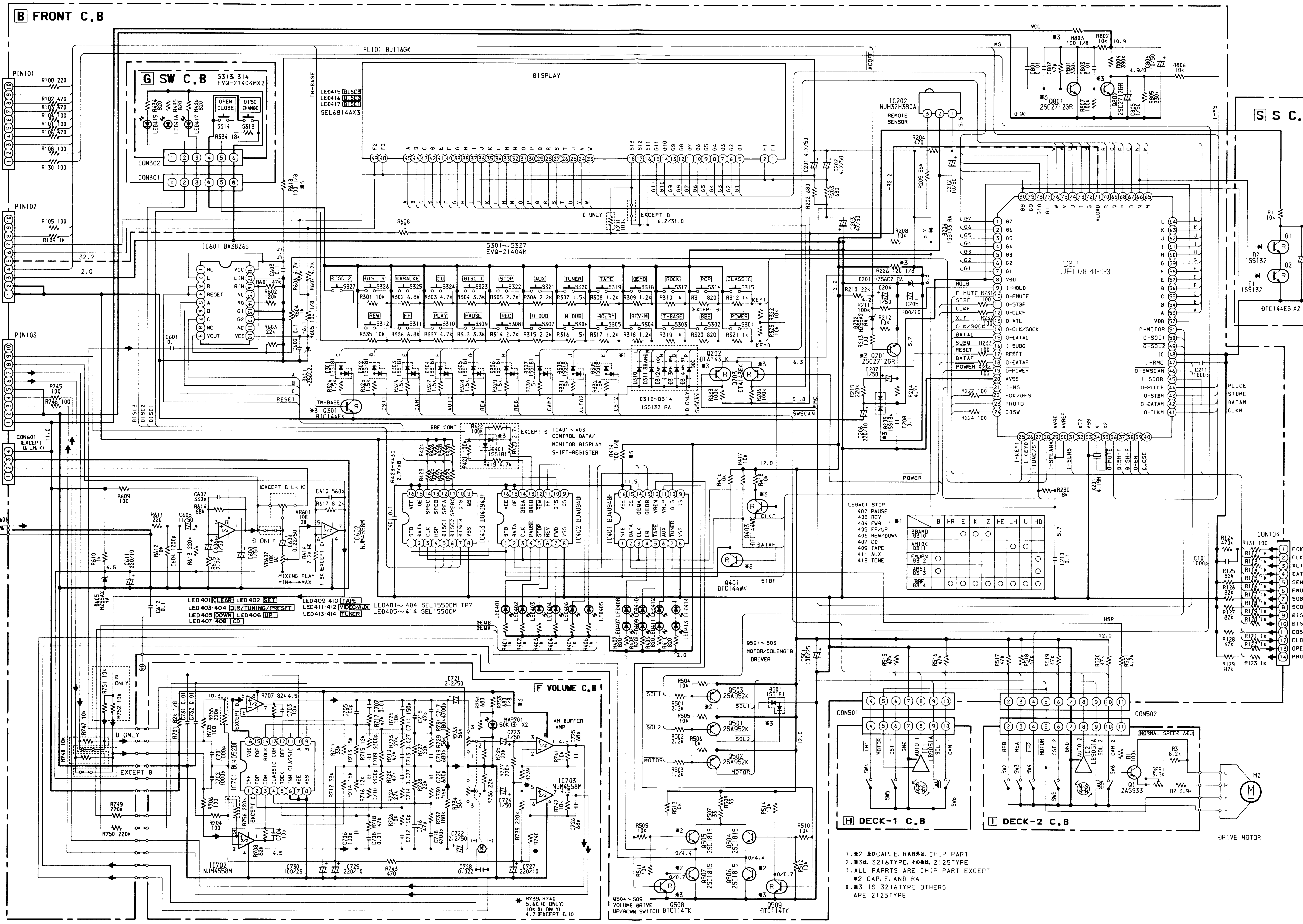
A
B
C
D
E
F
G
H
I
J
J801
ANTENNA
E, K ONLY
Z ONLY
AM LOOP
FM LOOP
FM 75Ω
E, K ONLY J902
ANTENNA
AM LOOP
VR651
AUX INPUT LEVEL
J652
AUX
R
L
J253
SURROUND
L
R
J254
SPEAKER
⊕
⊖
R
L
TO CON605
7 5 3 1
FROM C CD C.B
TO CON301
3 1
PIN301
FROM N RELAY-1 C.B
TO CON351
8 7 5 3 1
PIN351
FROM O RELAY-2 C.B
PIN101
FROM B FRONT C.B
PIN102
FROM B FRONT C.B
PIN103
FROM B FRONT C.B
J250
HEAD PHONE
PIN 2P
W101
WH102
PT101
E, Z:AC230V 50HZ
K:AC240V 50HZ
R100 R101
CON601
CON602
CON603
CON605
CON301
CON351
PIN401
WH101
RY101
IC201
IC202
IC211
IC501
IC601
IC602
IC603
IC604
IC401
IC572
IC720
IC721
IC741
L451
SFR302
SFR303
SFR351
SFR352
SFR401
SFR402
SFR451
SFR452
SFR721
SFR722

SCHEMATIC DIAGRAM—4 (FRONT)

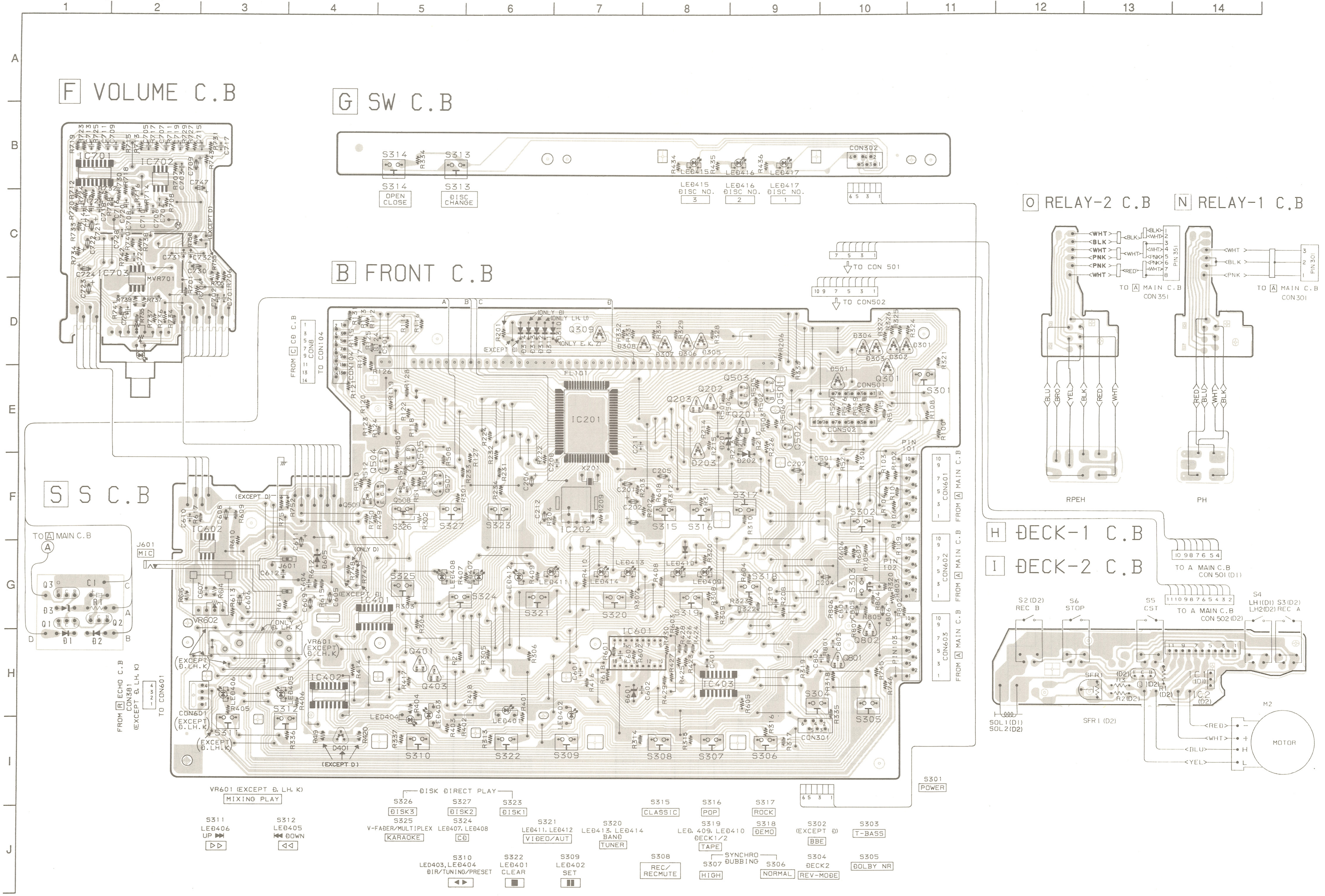

B FRONT C.B
G SW C.B
S S C.B
F VOLUME C.B
H DECK-1 C.B
I DECK-2 C.B
FL101 BJ116GK
DISPLAY
IC201 UPD78044-023
IC202 NJH32H380A REMOTE SENSOR
IC601 BA3826S
IC401 BU4094BF
IC402 BU4094BF
IC403 BU4094BF
IC401~403 CONTROL DATA/ MONITOR DISPLAY SHIFT-REGISTER
IC701 BU4052BF
IC702 NJM4558M
IC703 NJM4558M
IC602 NJM4558M
S301~S327 EVQ-21404M
S313, 314 EVQ-21404MX2
PIN101
PIN102
PIN103
FROM A MAIN C.B CON601
FROM A MAIN C.B CON602
FROM A MAIN C.B CON603
FROM C CD C.B CON8
CON104
CON301
CON302
CON501
CON502
Q501~503 MOTOR/SOLENOID DRIVER
Q504~509 VOLUME DRIVE UP/DOWN SWITCH DTC114TK
AM BUFFER AMP
MIXING PLAY MIN←→MAX
NORMAL SPEED ADJ
DRIVE MOTOR
M2
LED401~404 SEL1550CM TP7
LED405~414 SEL1550CM
LED401 CLEAR LED402 SET
LED403·404 DIR/TUNING/PRESET
LED405 DOWN LED406 UP
LED407 408 CD
LED409 410 TAPE
LED411 412 VIDEO/AUX
LED413 414 TUNER
* R739, R740 5.6K (D ONLY) 10K (U ONLY) 4.7 (EXCEPT D, U)

LED401 STOP
402 PAUSE
403 REV
404 FWD · *1
405 FF/UP
406 REW/DOWN
407 CD
409 TAPE
411 AUX
413 TONE

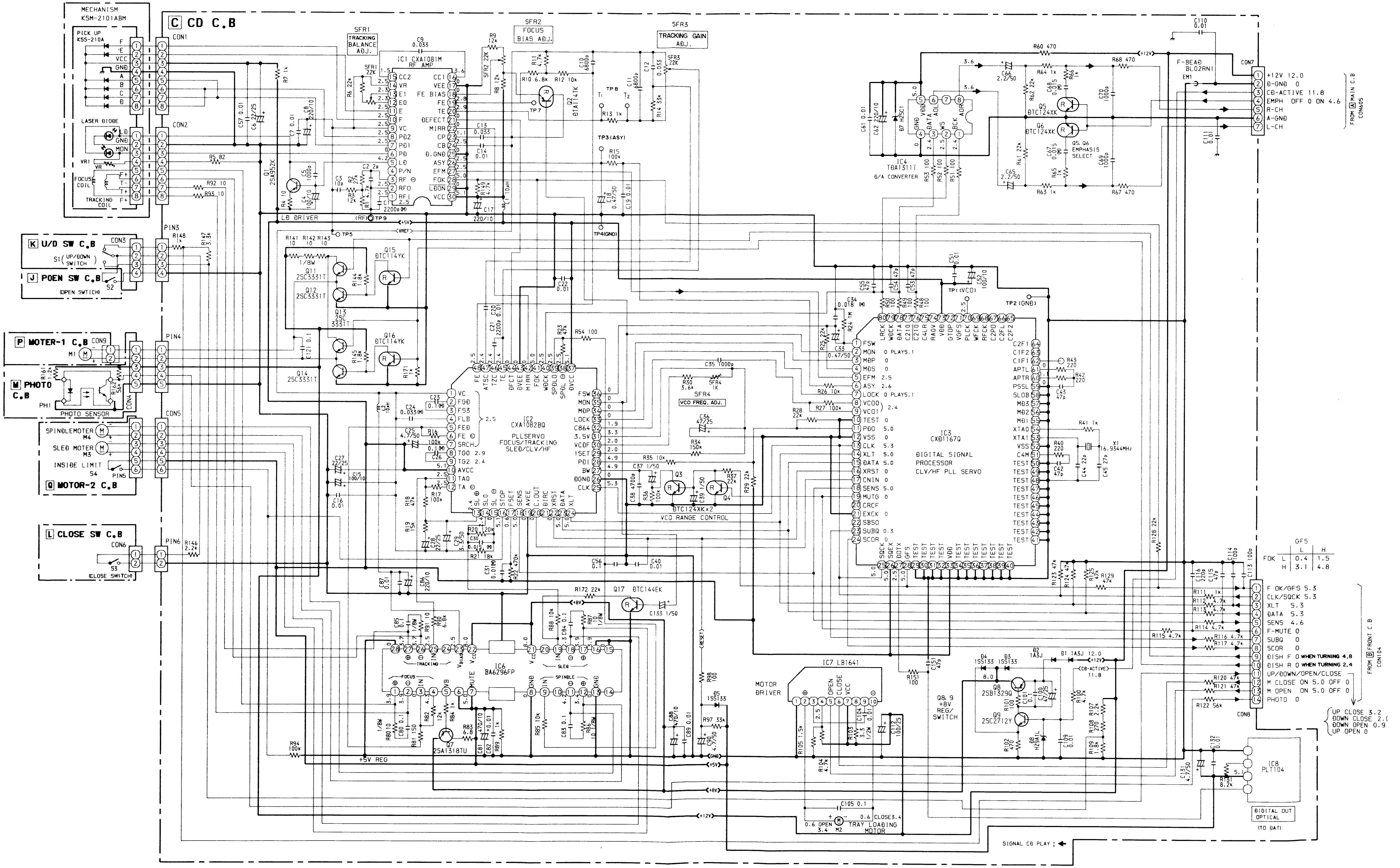
	D	HR	E	K	Z	HE	LH	U	HD
3BAMD D310			○	○	○				
AM10K D311							○	○	
FMJPN D312	○								○
AMST D313	○								○
BBE D314		○	○	○	○	○	○	○	○

1. *2 及びCAP, E, RA以外は, CHIP PART
2. *3は, 3216TYPE, その他は, 2125TYPE
I. ALL PAPRTS ARE CHIP PART EXCEPT
*2 CAP, E, AND RA
I. *3 IS 3216TYPE OTHERS
ARE 2125TYPE

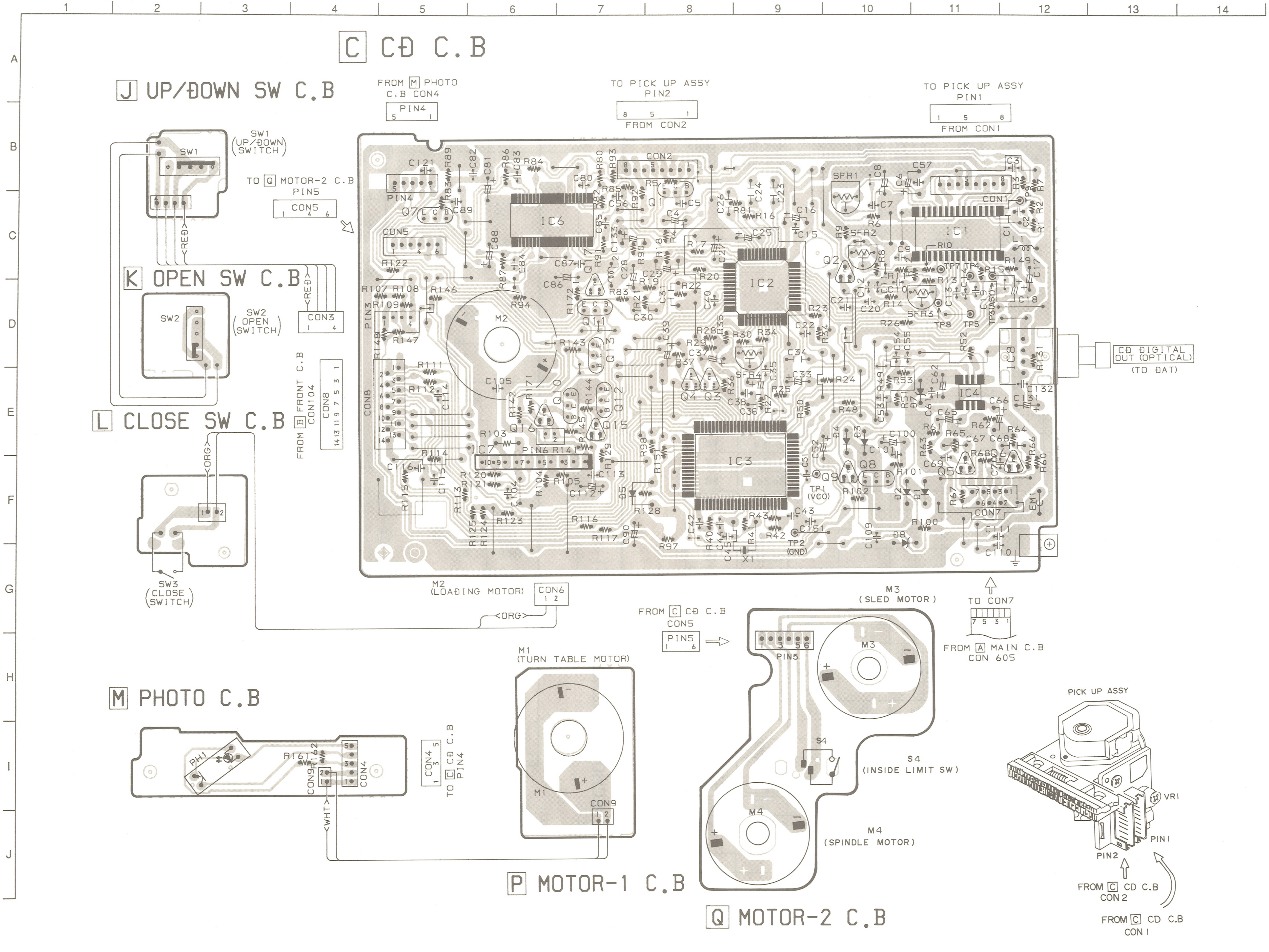
WIRING—4 (FRONT)


F VOLUME C.B
G SW C.B
B FRONT C.B
S S C.B
O RELAY-2 C.B
N RELAY-1 C.B
H DECK-1 C.B
I DECK-2 C.B
IC701
IC702
IC703
MVR701
IC201
IC202
IC401
IC402
IC403
IC601
IC602
FL101
X201
S314 OPEN CLOSE
S313 DISC CHANGE
LED415 DISC NO. 3
LED416 DISC NO. 2
LED417 DISC NO. 1
CON302
TO CON 501
TO CON502
FROM C CD C.B CON8
TO CON104
TO A MAIN C.B
J601 MIC
TO A MAIN C.B CON351
TO A MAIN C.B CON301
PIN 351
PIN 301
RPEH
PH
TO A MAIN C.B CON 501 (D1)
TO A MAIN C.B CON 502 (D2)
FROM A MAIN C.B CON601
FROM A MAIN C.B CON602
FROM A MAIN C.B CON603
FROM R ECHO C.B CON381 (EXCEPT Đ, LH, K)
TO CON601
S2 (D2) REC B
S6 STOP
S5 CST
S4 LH1(D1) LH2(D2)
S3(D2) REC A
SOL1(D1) SOL2(D2)
SFR1 (D2)
M2 MOTOR
S301 POWER
VR601 (EXCEPT Đ, LH, K) MIXING PLAY
S311 LED406 UP ▷▷
S312 LED405 ◁◁ DOWN
DISK DIRECT PLAY
S326 DISK3
S327 DISK2
S323 DISK1
S325 V-FADER/MULTIPLEX KARAOKE
S324 LED407, LED408 CD
S321 LED411, LED412 VIDEO/AUT
S320 LED413, LED414 BAND TUNER
S315 CLASSIC
S316 POP
S317 ROCK
S319 LED, 409, LED410 DECK1/2 TAPE
S318 DEMO
S302 (EXCEPT Đ) BBE
S303 T-BASS
S310 LED403, LED404 DIR/TUNING/PRESET ◀▶
S322 LED401 CLEAR ■
S309 LED402 SET ▮▮
S308 REC/ RECMUTE
S307 HIGH
SYNCHRO DUBBING
S306 NORMAL
S304 DECK2 REV-MODE
S305 DOLBY NR

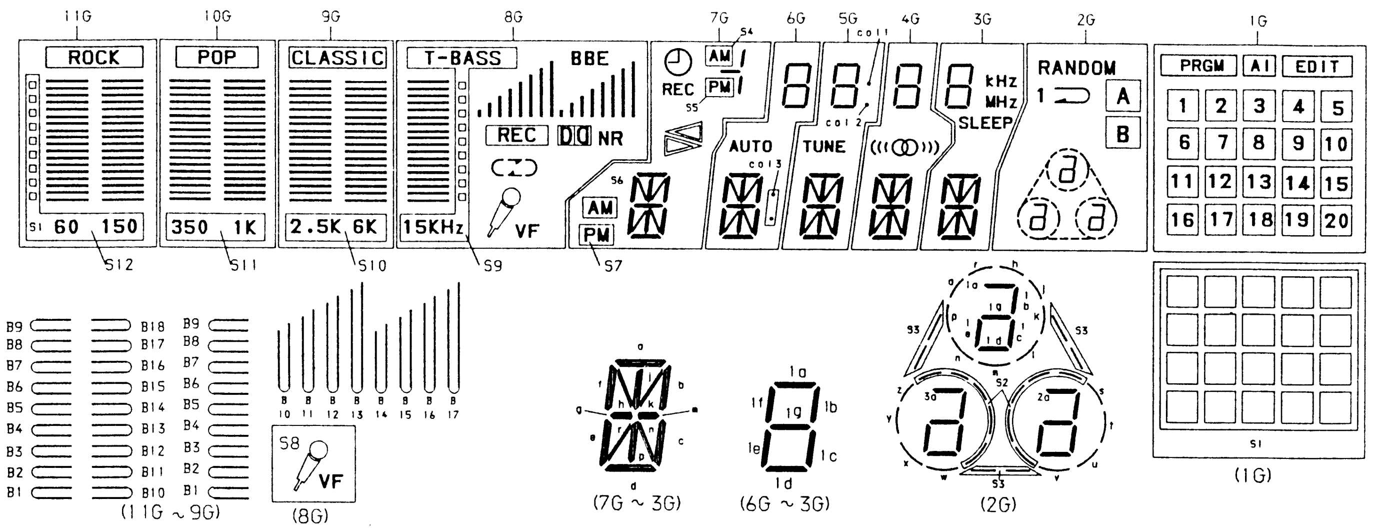
SCHEMATIC DIAGRAM—5 (CD)



MECHANISM KSM-2101ABM
PICK UP KSS-210A
LASER DIODE
FOCUS COIL
TRACKING COIL
C CD C.B
CON1
CON2
SFR1 TRACKING BALANCE ADJ.
SFR2 FOCUS BIAS ADJ.
SFR3 TRACKING GAIN ADJ.
IC1 CXA1081M RF AMP
LD DRIVER
K U/D SW C.B
S1 (UP/DOWN SWITCH)
J POEN SW C.B
S2 (OPEN SWTICH)
P MOTER-1 C.B
M1
M PHOTO C.B
PH1 PHOTO SENSOR
SPINDLEMOTER M4
SLED MOTER M3
INSIDE LIMIT S4
Q MOTOR-2 C.B
L CLOSE SW C.B
S3 (CLOSE SWITCH)
IC2 CXA1082BQ PLLSERVO FOCUS/TRACKING SLED/CLV/HF
IC3 CXD1167Q DIGITAL SIGNAL PROCESSOR CLV/HF PLL SERVO
IC4 TDA1311T D/A CONVERTER
SFR4 VCO FREQ. ADJ.
VCO RANGE CONTROL
DTC124XK×2
X1 16.9344MHz
TP1 (VCO)
TP2 (GND)
TP3 (ASY)
TP4 (GND)
TP5
TP7
TP8
TP9
Q5, Q6 EMPHASIS SELECT
F-BEAD BL02RN1
CON7
+12V 12.0
D-GND 0
CD-ACTIVE 11.8
EMPH OFF 0 ON 4.6
R-CH
A-GND
L-CH
FROM A MAIN C.B CON605
IC6 BA6296FP
Q7 2SA1318TU
+5V REG
Q17 DTC144EK
IC7 LB1641
MOTOR DRIVER
Q8, 9 +8V REG/SWITCH
Q8 2SB1329Q
Q9 2SC2712Y
M2 TRAY LOADING MOTOR
0.6 OPEN 3.4
0.6 CLOSE 3.4
IC8 PLT104
DIGITAL OUT OPTICAL (TO DAT)
SIGNAL CD PLAY
GFS
FOK L 0.4 1.5
FOK H 3.1 4.8
CON8
F OK/GFS 5.3
CLK/SQCK 5.3
XLT 5.3
DATA 5.3
SENS 4.6
F-MUTE 0
SUBQ 0
SCOR 0
DISH F 0 WHEN TURNING 4.8
DISH R 0 WHEN TURNING 2.4
UP/DOWN/OPEN/CLOSE
M CLOSE ON 5.0 OFF 0
M OPEN ON 5.0 OFF 0
PHOTO 0
UP CLOSE 3.2
DOWN CLOSE 2.0
DOWN OPEN 0.9
UP OPEN 0
FROM B FRONT C.B CON104


C CD C.B
J UP/DOWN SW C.B
K OPEN SW C.B
L CLOSE SW C.B
M PHOTO C.B
P MOTOR-1 C.B
Q MOTOR-2 C.B
SW1 (UP/DOWN SWITCH)
SW2 (OPEN SWITCH)
SW3 (CLOSE SWITCH)
FROM M PHOTO C.B CON4 PIN4
TO PICK UP ASSY PIN2 FROM CON2
TO PICK UP ASSY PIN1 FROM CON1
TO Q MOTOR-2 C.B PIN5 CON5
FROM B FRONT C.B CON104 CON8
CD DIGITAL OUT (OPTICAL) (TO DAT)
M2 (LOADING MOTOR) CON6
TO CON7 FROM A MAIN C.B CON 605
FROM C CD C.B CON5 PIN5
M1 (TURN TABLE MOTOR)
M3 (SLED MOTOR)
M4 (SPINDLE MOTOR)
S4 (INSIDE LIMIT SW)
TO C CD C.B PIN4 CON4
PICK UP ASSY
VR1
PIN1
PIN2
FROM C CD C.B CON 2
FROM C CD C.B CON 1
IC1
IC2
IC3
IC4
IC6
IC7
IC8
TP1 (VCO)
TP2 (GND)
X1
RED
ORG
WHT
1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H I J

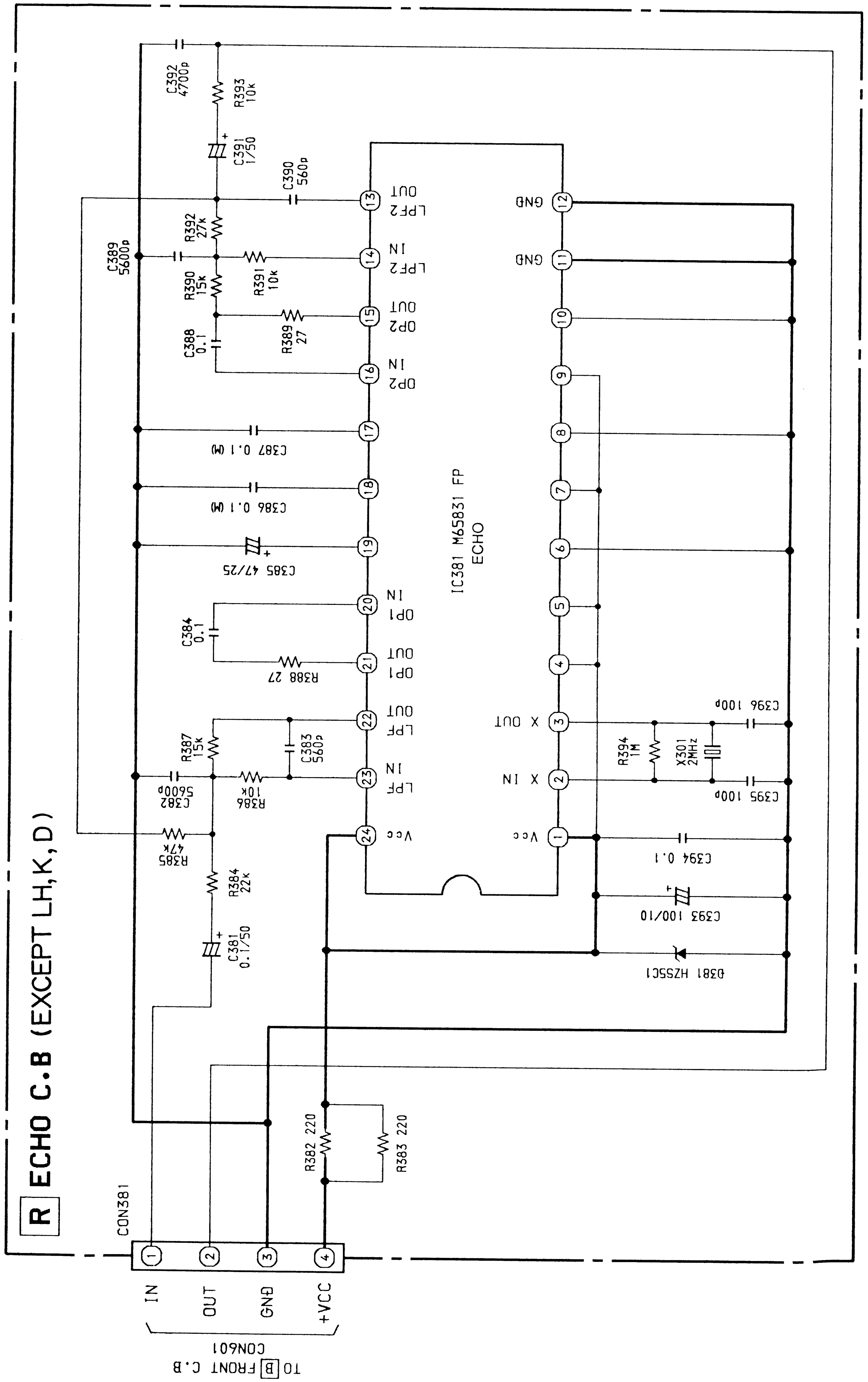
FL GRID ASSIGNMENT／ANODE CONNECTION


11G
10G
9G
8G
7G
6G
5G
4G
3G
2G
1G
ROCK
POP
CLASSIC
T-BASS
BBE
REC
NR
AM
PM
S4
S5
col 1
col 2
col 3
AUTO
TUNE
kHz
MHz
RANDOM
SLEEP
A
B
PRGM
AI
EDIT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
60
150
350
1K
2.5K
6K
15KHz
VF
S12
S11
S10
S9
S7
S6
B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18
S8
S3
S2
S1
(11G ~ 9G)
(8G)
(7G ~ 3G)
(6G ~ 3G)
(2G)
(1G)

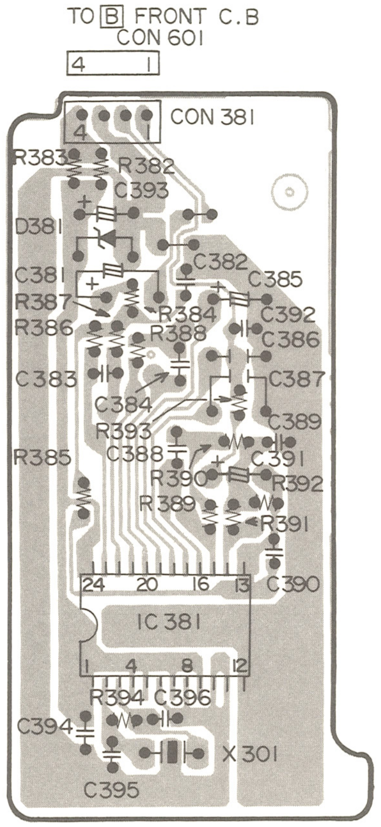
ANODE CONNECTION (BJ116GK)

	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	B10	B10	B10	(	d	d	d	d	d	s, t w, x	**20**
P2	B1	B1	B1	B1	j , p	j , p	j , p	j , p	j p	u, v y, z	**19**
P3	B11	B11	B11	S8	n	n	n	n	n	3 e	**18**
P4	B2	B2	B2	B2	r	r	r	r	r	3 c	**17**
P5	B12	B12	B12	)	c	c	c	c	c	3a,3d,3g	**16**
P6	B3	B3	B3	B3	e	e	e	e	e	3b	**15**
P7	B13	B13	B13	o	m	m	m	m	m	2e	**14**
P8	B4	B4	B4	B4	g	g	g	g	g	2c	**13**
P9	B5	B5	B5	B5	f	f	f	f	f	2a,2d,2g	**11**
P10	B15	B15	B15	**DD NR**	b	b	b	b	b	S3	**10**
P11	B6	B6	B6	B6	k	k	k	k	k	j, m, q	**9**
P12	B16	B16	B16	B10	h	h	h	h	h	h, l, p	**8**
P13	B7	B7	B7	B7	a	a	a	a	a	k, n, r	**7**
P14	B14	B14	B14	**REC**	S 7	col 3	col 1	–	**KHz**	2 b	**12**
P15	B17	B17	B17	B11	S 6	**AUTO**	**TUNE**	**((◎))**	**SLEEP**	1 e	**6**
P16	B8	B8	B8	B8	▷	–	col 2	–	**MHz**	1a,1d,1g	**5**
P17	B18	B18	B18	B12	◁	1d	1d	1d	1d	1c	**4**
P18	B9	B9	B9	B9	**REC**	1e	1e	1e	1e	1b	**3**
P19	▭	▭	▭	13B	S5	1c	1c	1c	1c	**B**	**2**
P20	-	-	-	B14	—	1g	1g	1g	1g	**1**	**1**
P21	-	-	–	B15	/	1f	1f	1f	1f	↩	**EDIT**
P22	–	–	–	B16	◷	1b	1b	1b	1b	**A**	**AI**
P23	-	-	-	B17	S4	1a	1a	1a	1a	**RANDOM**	**PRGM**
P24	S12	S11	S10	S9 ⧗	–	–	–	–	–	S2	S1
P25	**ROCK**	**POP**	**CLASSIC**	-	–	–	–	–	–	-	-
P26	-	-	-	**BBE**	–	–	–	–	–	-	-

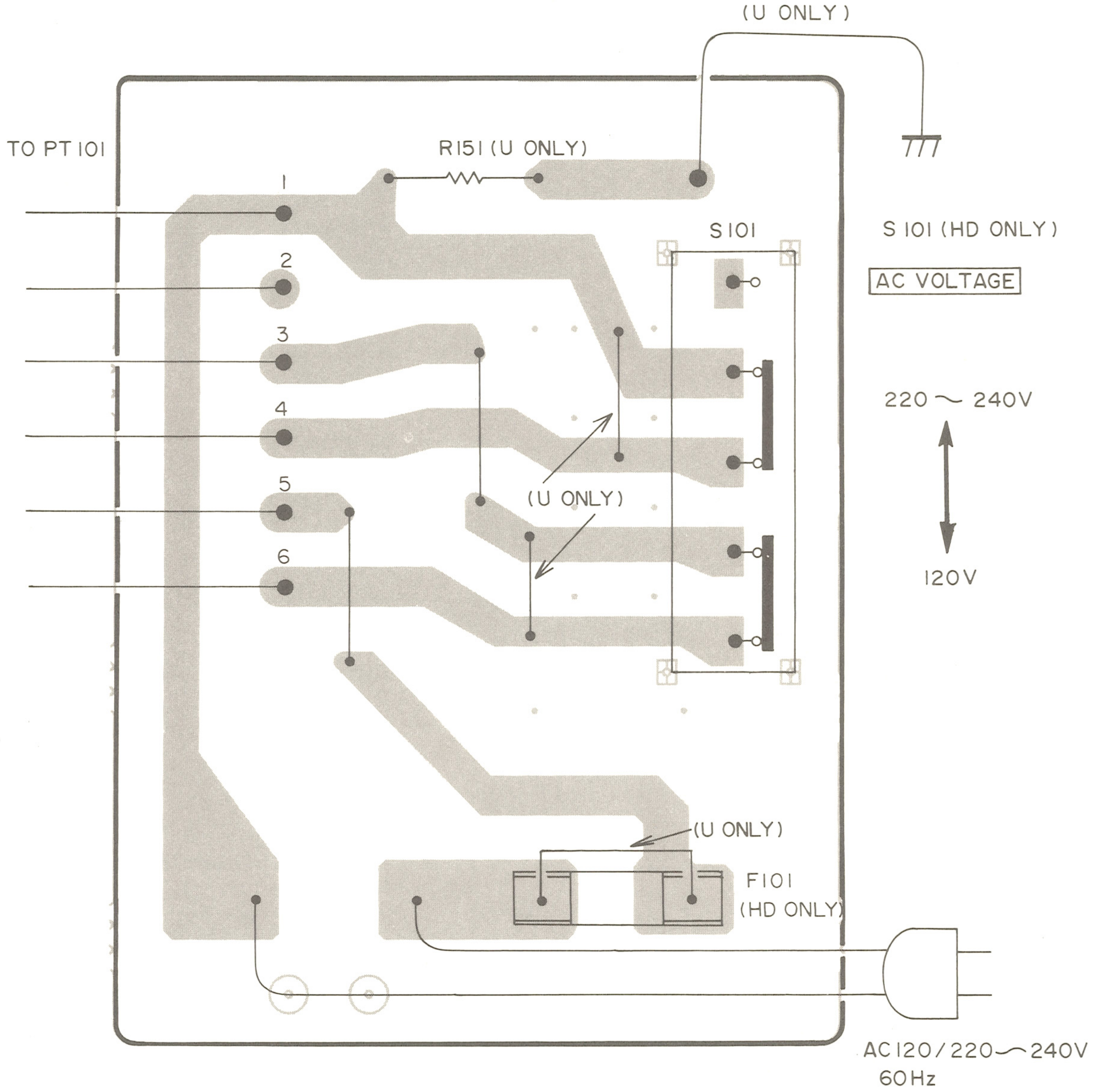
SCHEMATIC DIAGRAM—6 (ECHO)


R ECHO C.B (EXCEPT LH,K,D)
IC381 M65831 FP
ECHO
C392 4700p
R393 10k
C391 1/50
C390 560p
R392 27k
C389 5600p
R390 15k
R391 10k
C388 0.1
R389 27
C387 0.1 (M)
C386 0.1 (M)
C385 47/25
C384 0.1
R388 27
R387 15k
C383 560p
C382 5600p
R386 10k
R385 47k
R384 22k
C381 0.1/50
R382 220
R383 220
LPF2 OUT
LPF2 IN
OP2 OUT
OP2 IN
OP1 IN
OP1 OUT
LPF1 OUT
LPF1 IN
Vcc
GND
GND
X OUT
X IN
Vcc
R394 1M
X301 2MHz
C396 100p
C395 100p
C394 0.1
C393 100/10
D381 HZS5C1
CON381
IN
OUT
GND
+VCC
CON601
TO B FRONT C.B

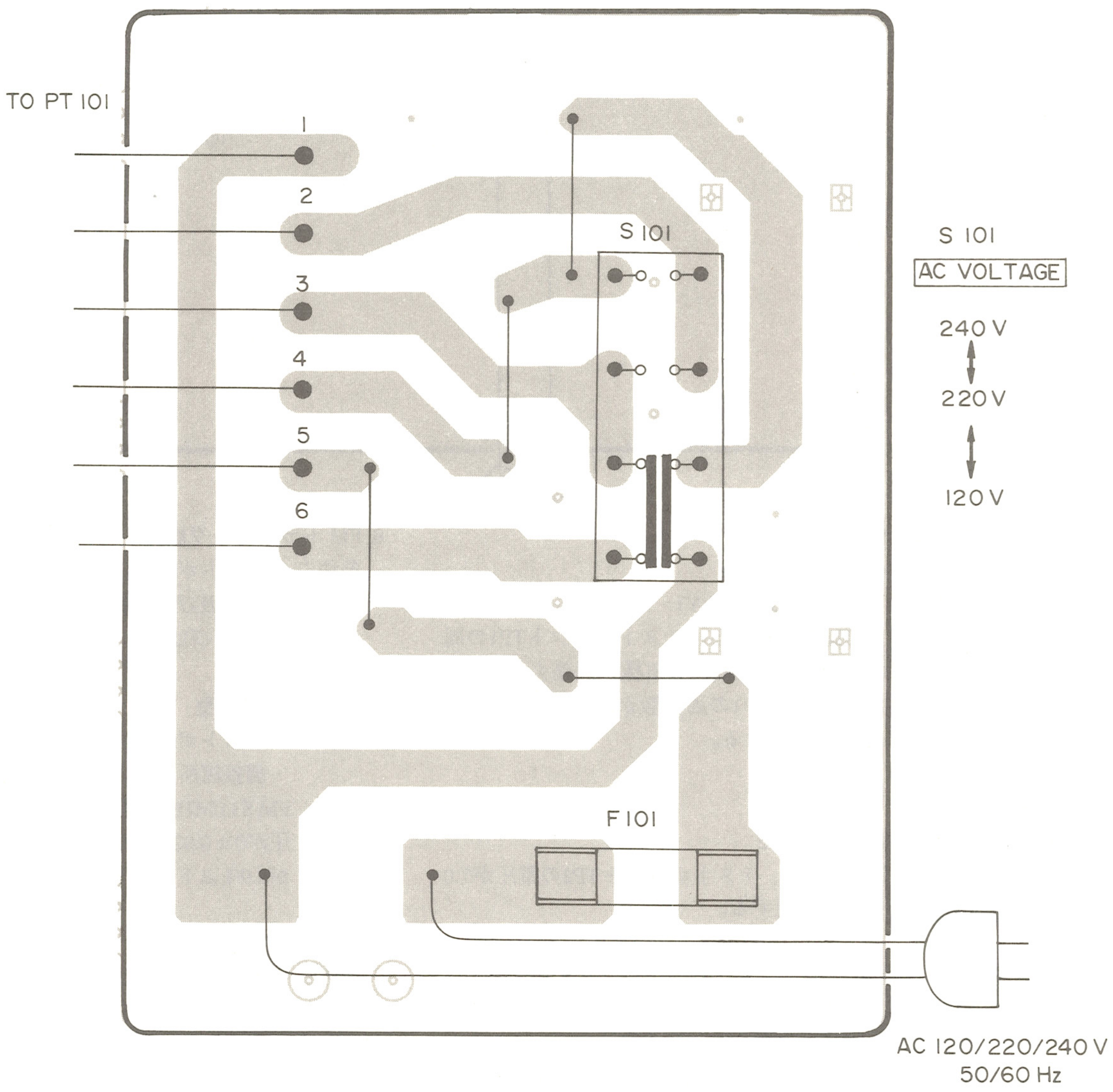
R ECHO C.B (HE, HR, HD, U, E, Z)


TO B FRONT C.B
CON 601
4
1
CON 381
4
1
R383
R382
C393
D381
C381
C382
C385
R387
R384
C392
R386
R388
C386
C383
C387
C384
C389
R393
C388
C391
R385
R390
R392
R389
R391
24
20
16
13
C390
IC 381
1
4
8
12
R394
C396
C394
X301
C395

E AC VOLTAGE C.B (U, HD)


(U ONLY)
TO PT 101
R151 (U ONLY)
1
2
3
4
5
6
S101
S101 (HD ONLY)
AC VOLTAGE
220 ~ 240V
120V
(U ONLY)
(U ONLY)
F101
(HD ONLY)
AC 120/220 ~ 240V
60Hz

E AC VOLTAGE C.B (HE, LH, HR)

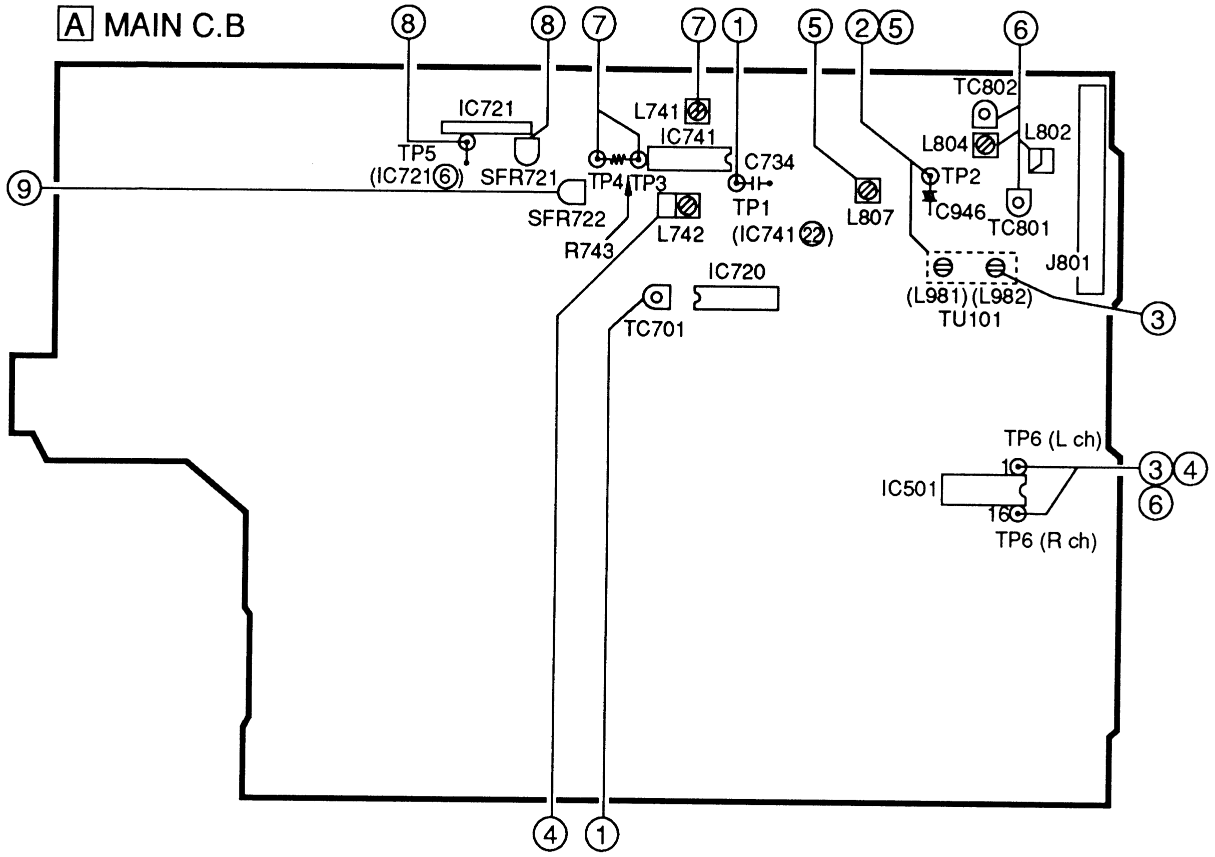

TO PT 101
1
2
3
4
5
6
S101
S101
AC VOLTAGE
240V
220V
120V
F101
AC 120/220/240V
50/60 Hz

ELECTRICAL ADJUSTMENT

ADJUSTMENT－1＜TUNER＞

(D, HD Models)

A MAIN C.B


⑧
⑧
⑦
⑦
①
⑤
②
⑤
⑥
IC721
TP5
(IC721⑥)
SFR721
⑨
SFR722
TP4
TP3
R743
L741
IC741
C734
TP1
(IC741㉒)
L742
IC720
TC701
L807
TC802
L804
L802
TP2
TC946
TC801
J801
(L981)
(L982)
TU101
③
TP6 (L ch)
1
IC501
16
TP6 (R ch)
③
④
⑥
④
①

1. クロック周波数調整

条件：・テストポイント：TP1
　　　・調整箇所：TC701 (HD ONLY)
方法：HD ：AM 1602kHzに設定し、テストポイントTP1の周波数が2052±0.01kHzになる様に調整する。
　　　D ：AM 1602kHzでTP1の周波数が2052±0.04kHzとなることを確認する。

2. AM VT 確認

条件：・テストポイント：TP2
方法：AM 1602kHzに設定し、テストポイントTP2の電圧が7.0±1.0Vになる事を確認する。

3. AMトラッキング調整

条件：・テストポイント：TP6
　　　・調整箇所：TU101 (L982)
方法：AM999kHzに設定し、感度が53±6dBになる様に調整する。

4. AM IF 調整

条件：・テストポイント：TP6
　　　L742 ···································· 450kHz

5. FM VT 調整

条件：・テストポイント：TP2
　　　・調整箇所：L807
方法：FM 76.0MHzに設定し、テストポイントTP2の電圧が1.0V±0.05Vになる様に調整する。

6. FM トラッキング調整

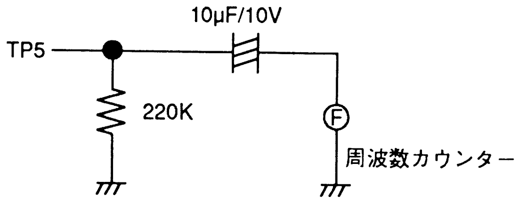
条件：・テストポイント：TP6
　　　(TC801及びTC802) ······················ 108.0MHz
　　　(L802及びL804) ························ 76.0MHz

7. DCバランス調整

条件：・テストポイント：TP3及びTP4
　　　・調整箇所：L741
方法：FM 83.0MHzに設定し、テストポイントTP3、TP4間の電圧が0±0.02Vになる様にL741を調整する。調整後、歪率が0.9%以下である事を確認する。

8. MPX VCO 調整

条件：・テストポイント：TP5
　　　・調整箇所：SFR721
方法：コンデンサーと抵抗を下図の様に接続する。非変調のFM 83.0MHzに設定し、テストポイントTP5の周波数が38±0.05kHzになる様にSFR721を調整する。


10μF/10V
TP5
220K
F
周波数カウンター

9. チューニングLED 点灯調整

条件：・入力レベル：18dB
　　　・調整箇所：SFR722
方法：FM 83.0MHzに設定し、チューニングLEDが点灯する様にSFR722を調整する。その後、入力レベルが2dB下がるとLEDは消灯する。

PRACTICAL SERVICE FIGURE

＜FM部＞

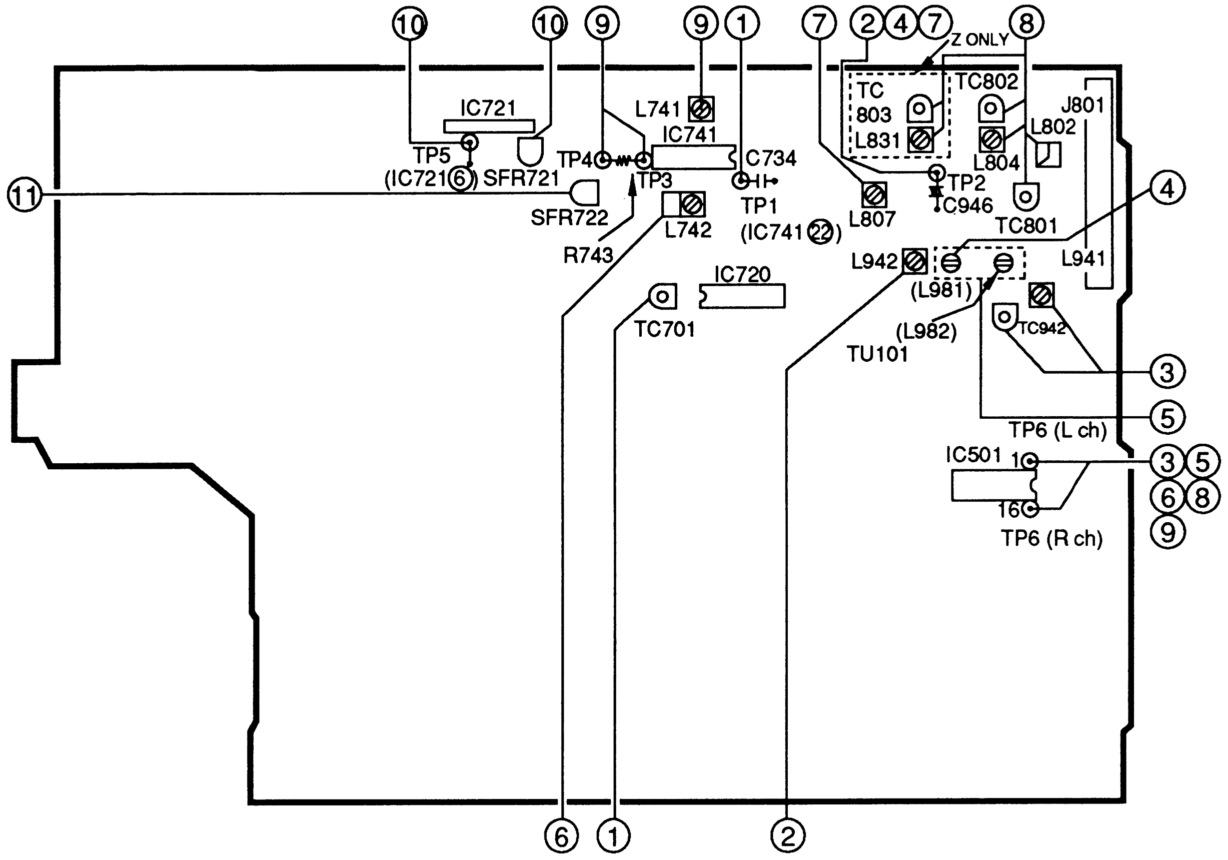
IHF 感度：	6±4dB (76MHz時)
(THD 3%)	4±4dB (83/90/108MHz時)
50dB雑音制限感度：	32±5dB (76/83/108MHz時)
S/N比：	STEREO 64dB以上 (83MHz時)
歪率：	MONO 0.9%以下 (83MHz時)
	STEREO 1.2%以下 (83MHz時)
セパレーション：	25dB以上 (83MHz時)
中間周波数：	10.7MHz

＜AM部＞

実用感度：	54$\pm^{8}_{6}$dB (603kHz時)
(S/N 20dB)	53±6dB (999kHz時)
	53±6dB (1404kHz時)
歪率：	1.5%以下 (999kHz時)
セパレーション：	20dB (999kHz時)
中間周波数：	450Hz

ADJUSTMENT—1 <TUNER>

(HE, LH, HR, U, E, K, Z Models)



1. Clock Frequency Adjustment

Settings: · Test point : TP1 (CLK)

· Adjustment location : TC701

Method: Set to AM 1602kHz (HE, LH, HR, E, K, Z), 1710kHz (U) and adjust so that the test point becomes 2052kHz ± 0.01kHz (HE, LH, HR, E, K, Z), 2160kHz ± 0.01kHz (U).

2. LW VT Adjustment (E, K, Z)

Settings: · Test point : TP2 (VT)

· Adjustment location : L942

Method: Set to LW 144kHz and adjust so that the test point becomes 1.5V ± 0.05V.

3. LW Tracking Adjustment (E, K, Z)

Setting: · Test point : TP6

L941 ······················ 144kHz

TC942 ······················ 290kHz

4. AM (MW) VT Check

Settings: · Test point : TP2 (VT)

· Adjustment location : TU101 (L981)

Method: Set to AM 1602kHz (HE, LH, HR, E, K, Z), 1710kHz (U) and adjust so that the test point becomes 6.0V ± 1.0V (HE, LH, HR, E, K, Z), 7.0V ± 1.0V (U).

5. AM (MW) Tracking Check

Settings: · Test point : TP6

· Adjustment location : TU101 (L982)

Method: Set to AM 999kHz (HE, LH, HR, E, K, Z), 1000KHz (U) and adjust so that the test point becomes 53V ± 6dB.

6. AM IF Adjustment

Settings: · Test point : TP6

L742 ······················ 450kHz

7 FM VT Adjustment

Settings: · Test point : TP2 (VT)

· Adjustment location : L807

Method: Set to FM 87.5MHz and adjust L807 so that the test point becomes 2.9V ± 0.05V.

8. FM Tracking Adjustment

Settings: · Test point : TP6

TC801, TC802 ·········· 108MHz (Except Z)

TC801, TC802, TC803 ·········· 108MHz (Z)

L802, L804 ············ 87.5MHz (Except Z)

L802, L804, L831 ············ 87.5MHz (Z)

9. DC Balance/MONO Distortion Adjustment

Settings: · Test point : TP3, TP4 (DC balance)

TP6 (Distortion)

· Adjustment location : L741

· Input level : 54dB

Method: Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes 0V ± 0.02V.

Next, adjust L741 so that the distortion becomes minimum (less than 0.9%).

10. MPX VCO Adjustment

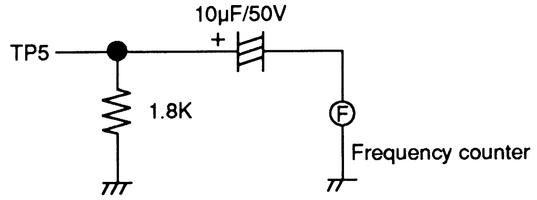
Settings: · Test point : TP5

· MODE SW : STEREO

· Adjustment location : SFR721

· Input level : 54dB

Method: Connect a capacitor and a resitor as below. Set to FM 98.0MHz and adjust so that the frequency at test point becomes 38kHz ± 0.05kHz.



11. Light on Tuning LED Adjustment

Settings: · Adjustment location : SFR722

· Input level : 16dB

Method: Set to FM 98.0MHz and adjust TUNING LED to light on by SFR722. After that, LED goes out by 16 ± 2dB down.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity: (THD 3%)	2 ± 6dB (Except Z) (at 87.5, 98.0, 108.0MHz) 7 ± 6dB (Z) (at 87.5, 98.0, 108.0MHz)
S/N 50dB Quieting Sensitivity: (Except Z)	32 ± 5dB (at 87.5, 98.0, 108.0MHz)
S/N 46dB Quieting Sensitivity: (Z)	37 ± 6dB (at 87.5, 98.0, 108.0MHz)
Signal to Noise Ratio:	More than 64dB (Except Z) (at 98.0MHz) More than 60dB (Z) (at 98.0MHz)
Dstortion:	Less than 1.2% (at 98.0MHz)
Stereo Separation:	More than 25dB (at 98.0MHz)
Intermediate Frequency:	10.7MHz

<AM (MW) SECTION>

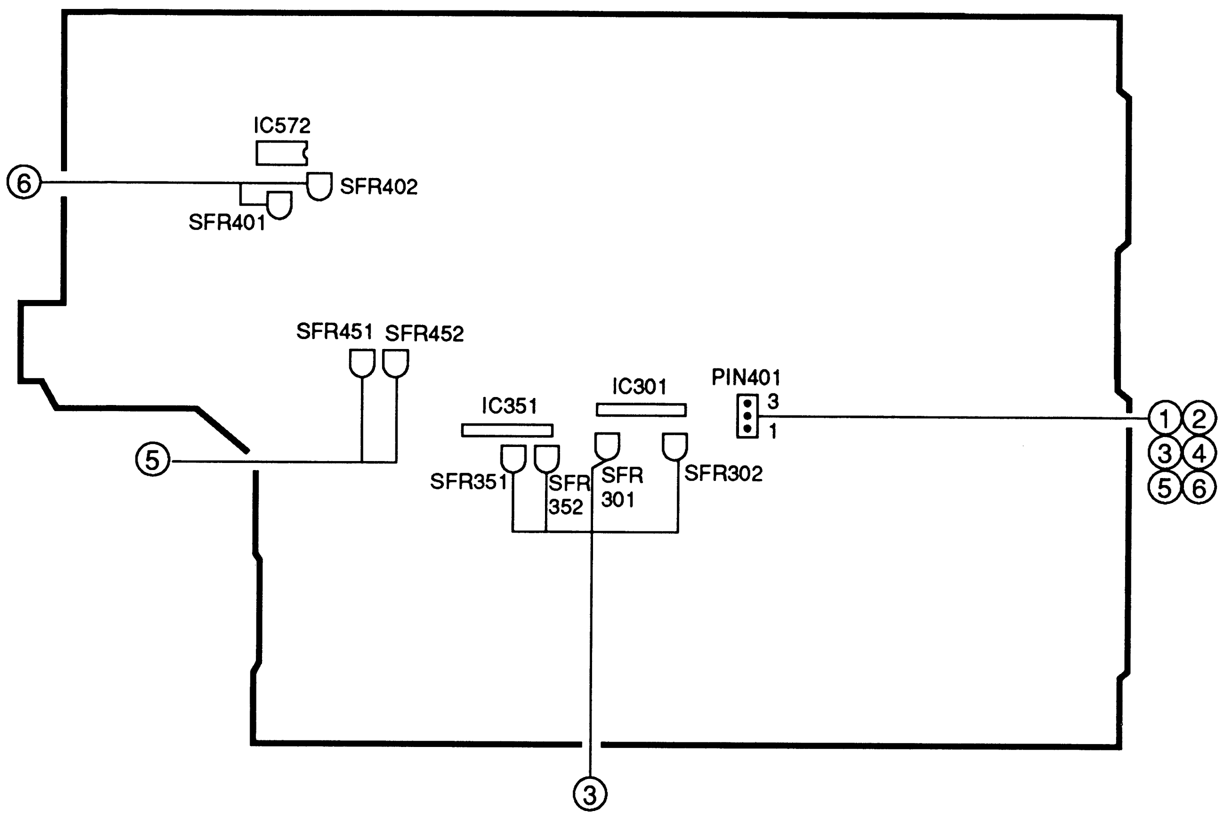
Sensitivity:	$54 \pm ^{8}_{6}$dB [at 603kHz (HE, HR, E, K, Z)] [at 600kHz (LH, U)] 53 ± 6dB [at 999/1404kHz (HE, HR, E, K, Z)] [at 1000/1400kHz (LH, U)]
Distortion:	Less than 1.5% [at 999kHz (HE, HR, E, K, Z)] [at 1000kHz (LH, U)]
Intermediate Frequency:	450kHz

<LW SECTION> (E, K, Z)

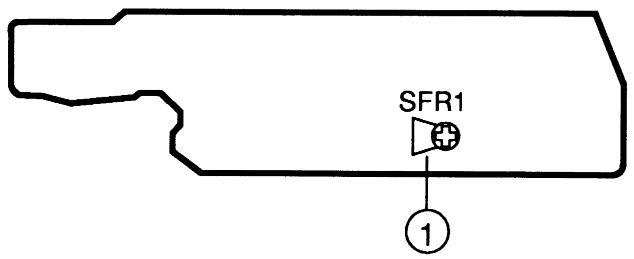
Sensitivity: (S/N 20dB)	66 ± 5dB (at 144kHz) 63 ± 5dB (at 198kHz) 62 ± 5dB (at 290kHz)
Signal to Noise Ratio:	More than 32dB (at 198kHz)
Distortion:	Less than 1.5% (at 198kHz)
Intermediate Frequency:	450kHz

ADJUSTMENT−2<DECK>

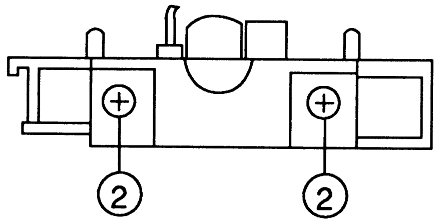
A MAIN C.B



I DECK—2 C.B



DECK 1P, DECK 2 R/P/E HEAD



1. 定速スピード調整 (DECK2)

条件：・テストテープ：TTA−100
　　　・テストポイント：PIN401
　　　・調整箇所：SFR1 (DECK2)

方法：テストテープを再生し、再生周波数が3000±5Hzになる様にSFR1 (DECK2) を調整する。
REV時はFWDに対して±45Hzである事を確認する。

2. アジマス調整 (DECK1及びDECK2)

条件：・テストテープ：TTA−310
　　　・テストポイント：PIN401
　　　・調整箇所：アジマス調整ネジ

方法：テストテープの10kHzを再生し、出力が最大ポイントより-0.5dBになる様に調整する。PLAY及びREV PLAYの各モードにて調整する。

3. 再生レベル調整 (DECK1及びDECK2)

条件：・テストテープ：TTA−200
　　　・テストポイント：PIN401
　　　・調整箇所：SFR301 (DECK1 Lch)
　　　　　　　　SFR302 (DECK1 Rch)
　　　　　　　　SFR351 (DECK2 Lch)
　　　　　　　　SFR352 (DECK2 Rch)

方法：テストテープを再生し、出力が300mVになる様に調整する。

4. 再生周波数特性確認 (DECK1及びDECK2)

条件：・テストテープ：TTA−310
　　　・テストポイント：PIN401

方法：テストテープの315Hzと10kHzを再生し、10kHzの出力が315Hzの出力に対して0±2.0dBである事を確認する。

5. 録再周波数特性調整 (DECK2)

条件：・テストテープ：TTA−601
　　　・テストポイント：PIN401
　　　・調整箇所：SFR451 (Lch)
　　　　　　　　SFR452 (Rch)

方法：テストポイントにて21.0mVになる様に、ATTを調整する。テストテープの1kHzと10kHzを録再し、10kHzの出力が1kHzの出力に対して0dB±0.5dBになる様に調整する。

6. 録再感度調整 (DECK2)

条件：・テストテープ：TTA−601
　　　・テストポイント：PIN401
　　　・調整箇所：SFR401 (Lch)
　　　　　　　　SFR402 (Rch)

方法：テストポイントにて21.0mVになる様に、ATTを調整する。テストテープの1kHzを録再し、出力が21.0mV±0.5dBになる様に調整する。

PRACTICAL SERVICE FIGURE

<DECK>

再生出力：	2.8V±1.5dB (SP OUT)
録再出力：	2V±2dB (SP OUT)
録再歪率：	2.0%以下 (NORM/CrO_2)
消去率：	60dB以上
クロストーク：	60dB以上
チャンネルセパレーション：	50dB以上
録再ノイズ：	35mV/16mV以下 (DOLBY OFF/ON NORM, SP OUT) 23mV/13mV以下 (DOLBY OFF/ON CrO_2, SP OUT)
再生ノイズ：	200mV/130mV以下 (DOLBY OFF/ON NORM, VR MAX) 150mV/100mV以下 (DOLBY OFF/ON CrO_2, VR MAX)
録音バイアス周波数：	108kHz
テープスピード：	3kHz±45Hz
ワウ・フラッター：	0.25%以下 (W. RMS) (DECK1/2)
巻き取りトルク：	30〜55g-cm (DECK1/2)
早送りトルク：	75〜140g-cm (DECK1/2)
巻き戻しトルク：	75〜140g-cm (DECK1/2)
バックテンション：	2〜6g-cm (DECK1/2)
テストテープ：	NORMAL TTA-601 CrO_2 TTA−610

1. Normal Speed Adjustment (DECK-2)

Settings: · Test tape : TTA-100
· Test point : TP-OUT (PIN401)
· Adjustment location : SFR1 (DECK-2)

Method: Play back the test tape, on FWD PLAY SFR1 (DECK-2) adjust for 3000Hz ± 5Hz, and to ± 45Hz of the FWD value during the REV mode.

2. Head Azimuth Adjustment (DECK-1, DECK-2)

Settings: · Test tape : TTA-310
· Test point : TP-OUT (PIN401)
· Adjustment location : Head zaimuth adjustment screw

Method: Play back the 10kHz signal of the test tape and adjust so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.

3. PB Sensitivity Adjustment (DECK-1, DECK-2)

Settings: · Test tape : TTA-200 (TCC-130, TTA-161)
· Test point : TP-OUT (PIN401)
· Adjustment location :
SFR301 (DECK-1, Lch)
SFR302 (DECK-1, Rch)
SFR351 (DECK-2, Lch)
SFR352 (DECK-2, Rch)

Method: Play back the test tape and adjust so that the output becomes 300mV.

4. PB Frequency Response Check (DECK-1, DECK-2)

Settings: · Test tape : TTA-310
· Test point : TP-OUT (PIN401)

Method: Play back the 315Hz and 10kHz signals of the test tape and check the output of the 10kHz signal is 0dB ± 2dB with respect to that of the 315Hz signal.

5. REC /PB Frequency Response Adjustment (DECK-2)

Settings: · Test tape : TTA-601
· Test point : TP-OUT (PIN401)
· Adjustment location : SFR451 (Lch)
SFR452 (R ch)

Method: Apply a 1kHz signal and adjust attenuator so that the level at the TP-OUT is 21.0mV.
Record and play back the 1kHz and 10kHz signals and adjust so that the output level of 10kHz signal is 0dB ± 0.5dB for 1kHz signal.

6. REC /PB Sensitivity Adjustment (DECK-2)

Settings: · Test tape : TTA-601
· Test point : TP-OUT (PIN401)
· Adjustment location : SFR401 (Lch)
SFR402 (R ch)

Method: Apply a 1kHz signal and adjust attenuator so that the level at the TP-OUT is 21.0mV.
Record and play back the 1kHz signal and 10kHz signals and adjust so that the output level is 21.0mV ± 0.5dB.

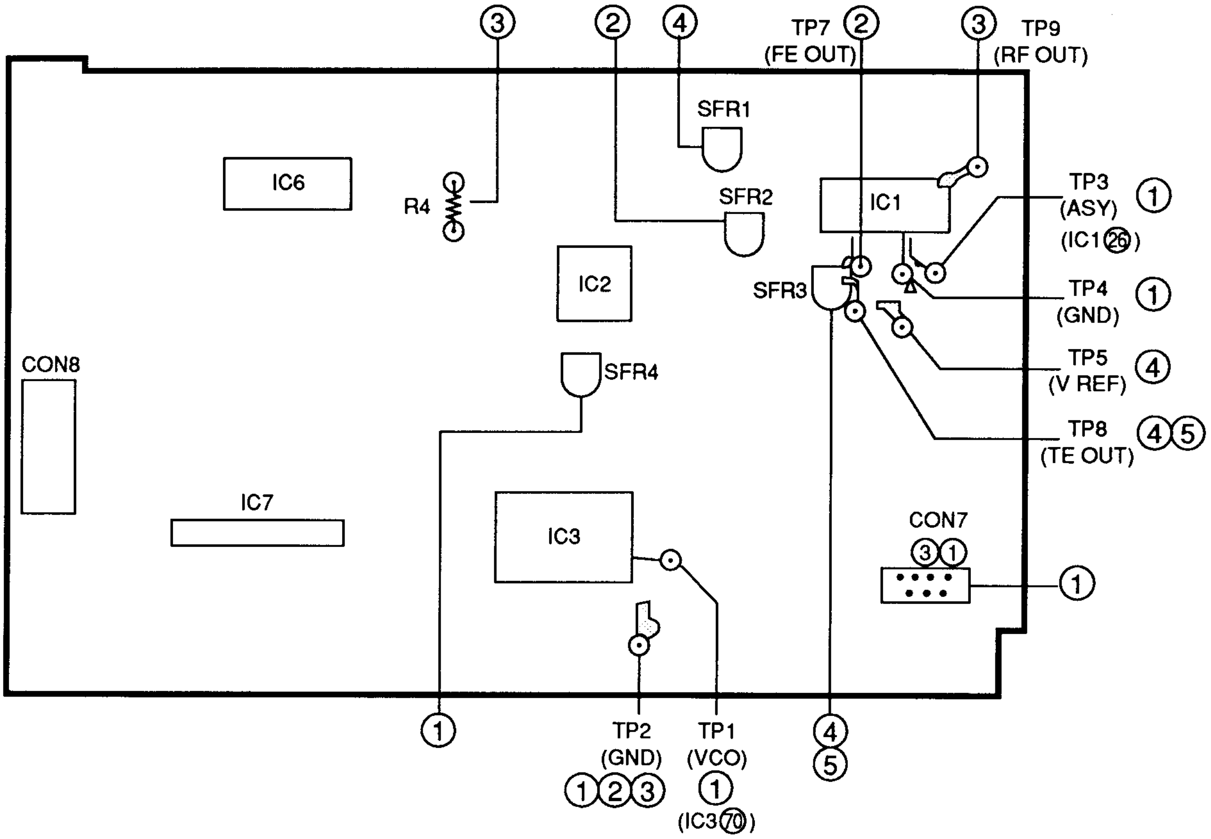
PRACTICAL SERVICE FIGURE

<DECK SECTION>

PB Output Level:	2.8V ± 1.5dB (SP OUT)
REC/PB Output Level:	2V ± 2dB (SP OUT)
Distortion (REC/PB):	Less than 2.0% (NORM, CrO_2)
Noise (PB):	Less than 100mV/150mV (DOLBY NR ON/OFF CrO_2, VR MAX.) Less than 130mV/200mV (DOLBY NR ON/OFF NORM, VR MAX.)
Noise (REC/PB):	Less than 35mV/16mV (DOLBY ON/OFF NORM, SP OUT) Less than 23mV/13mV (DOLBY ON/OFF CrO_2, SP OUT)
Erasing Ratio:	More than 60dB (TTA-601) (at 125Hz)
Cross talk:	More than 60dB
Channel Separation:	More than 50dB
Recording Bias Frequency:	85kHz
Tape speed:	3kHz ± 1.5%
Wow & Flutter:	Less than 0.25% (DECK-1/2) TTA-100 (TTA-111S)
Take-up Torque:	30~55g-cm (DECK-1/2)
F.F & REW Torque:	75~140g-cm (DECK-1/2)
Back Tension:	2~6g-cm (DECK-1/2)
Test Tape:	NORMAL :TTA-601 CrO_2 :TTA-610

ADJUSTMENT－3 <CD>

C CD C.B


③
②
④
TP7 ②
(FE OUT)
③ TP9
(RF OUT)
SFR1
IC6
R4
SFR2
IC1
TP3 ①
(ASY)
(IC1㉖)
IC2
SFR3
TP4 ①
(GND)
CON8
SFR4
TP5 ④
(V REF)
TP8 ④⑤
(TE OUT)
IC7
IC3
CON7
③①
①
①
TP2
(GND)
①②③
TP1
(VCO)
①
(IC3(70))
④
⑤

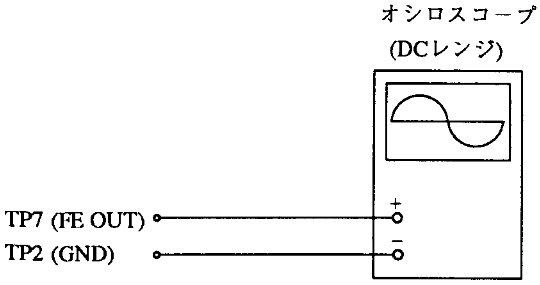
注意:周波数カウンター又はオシロスコープのプローブ(10:1) をテストポイントに接続する。

1. VCO周波数調整

1. CON7の①と③をワイヤーでショートする.
2. TP3 (ASY) とTP4 (GND) を接続し、ショートする。
3. 周波数カウンターをテストポイントTP1 (VCO) とTP2 (GND) に接続する。
4. 周波数カウンターの値が4.27±0.02MHzになる様にSFR4 (VCO) を調整する。
5. 調整後、TP2 (GND), TP3 (ASY) 及びTP4からショートクリップを外す。

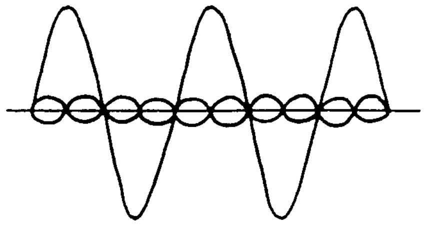
2. フォーカスバイアス調整

光学ブロックの変換時又は修理時には、必ずフォーカスバイアスを調整する。

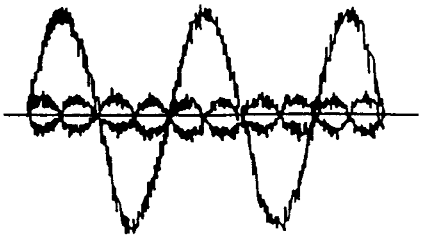

オシロスコープ
(DCレンジ)
TP7 (FE OUT)
TP2 (GND)
+
−

1. オシロスコープをテストポイントTP7 (FE OUT) とTP2 (GND) に接続する。
2. 電源スイッチをONにする。
3. テストディスクTCD-782 (YEDS-18) を入れ、2曲目を再生する。
4. テストポイントTP7 (FE OUT) のノイズ (高周波) が最小になる 様にSFR2を調整する。

可（はっきりと）



不可

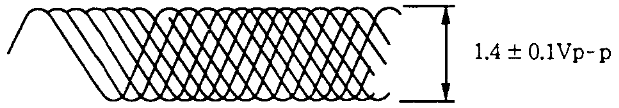


3. RF波形確認

修理の為に光学システムブロックを交換した場合には、RF波形を確認する。

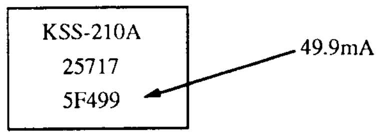
1. オシロスコープをテストポイントTP9 (RF OUT) とTP2 (GND) に接続する。
2. 電源スイッチをONにする。
3. テストディスクTCD-782 (YEDS-18) を入れ、2曲目を再生する。
4. 波形が下図のように出力することを確認する。

RF信号波形



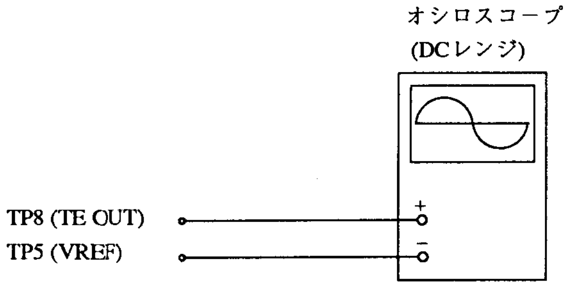
VOLT/DIV: 50mV
TIME/DIV: 1mS

注意: レーザー電流はR4 (10Ω) の両端電圧で確認する。レーザーピックアップ裏側のラベルに示す電流値に対し、±6.0mA以内であること。

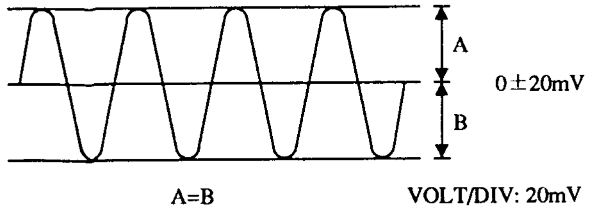


$$\text{レーザー電流Iop} = \frac{\text{R4両端電圧}}{10\Omega}$$

4. トラッキングバランス調整



1. オシロスコープをテストポイントTP8 (TE OUT) とTP5 (VREF) に接続する。
2. SFR3の中点をGNDにおとす。
3. 電源スイッチをONにする。
4. テストディスクTCD-782 (YEDS-18) を入れ、PLAY (▶) ボタンを押す。
5. SFR1を調整し、オシロスコープの波形を下図のように上下対称にする。
6. 調整後、SFR3からアースリード線を外す。



VOLT/DIV: 20mV
TIME/DIV: 1mS

5. トラッキングゲイン調整

この調整を正確に行うためにはサーボアナライザーが必要です。また、このゲインはマージンを持っているため、通常では少し位ずれても問題ありません。したがって、この調整は行わないで下さい。2軸デバイス動作時の機械的ノイズと機械的ショックに対し、トラッキングゲインにてピックアップの追従性を決めます。しかし、これは互いに相反するため、両方を満足する点に調整してあります。

- ● ゲインを上げると、2軸デバイス動作時の雑音が増加する。
- ● ゲインを下げると、機械的ショックに弱くなり音飛びが起きやすくなる。

そして、ゲインの調整がずれていると、次表の様な症状が現れます。

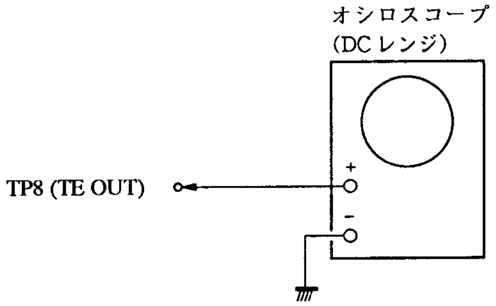
ゲイン 症状	フォーカス	トラッキング
●STOP→ ▶ PLAY時又は自動選曲時 (|◀◀、▶▶|ボタンを押した時)、演奏開始までの時間が長くなる。(通常は約2秒)	低い	低い又は高い
●STOP→ ▶ PLAY時又は自動選曲時 (|◀◀、▶▶|ボタンを押した時)、演奏が行われずにディスクだけが回転し続ける。	−	低い
●STOP→ ▶ PLAY時、しばらくすると回転が止まる。	低い又は高い	−
●演奏中に音が途切れ、タイムカウンター表示が停止する。	−	低い
●2軸デバイス動作時、ノイズが多くなる。	高い	高い

なお、簡易調整として下記の方法があります。

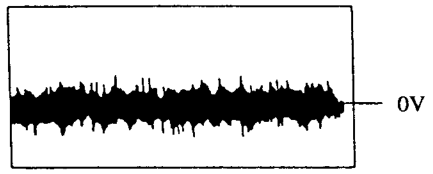
−簡易調整−

注意: 正確には調整出来ないため、調整を行う前のボリュームの位置を憶えておいて、簡易調整を行った後のボリュームの位置と比較して、そのずれが少ないときは元のボリュームの位置に戻して下さい。

調整方法:



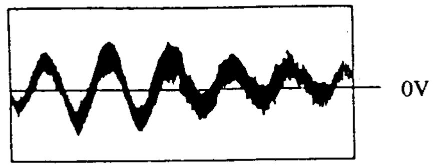
1. セットを水平に置く。(セットを水平に置かないと、2軸デバイスが重力の影響を受けて調整できません。)
2. テストディスクTCD-782 (YEDS-18) を入れ、2曲目を再生する。
3. オシロスコープをTP8 (TE OUT) に接続する。
4. SFR3を調整し、オシロスコープの波形を図の様にする (トラッキングゲイン調整)。



VOLT/DIV: 5mV
TIME/DIV: 1mS

- ● 悪い例 (調整されている波形と比べて、基本波が現れるようになる。)

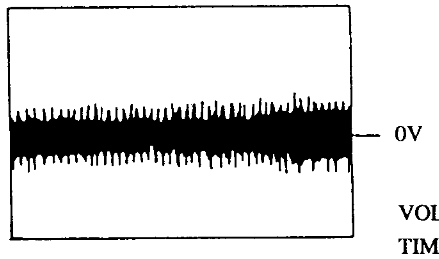
トラッキングゲインが低い時



VOLT/DIV: 5mV
TIME/DIV: 1mS

トラッキングゲインが高い時

基本波の周波数はゲインが低い場合より高い



VOLT/DIV: 5mV
TIME/DIV: 1mS

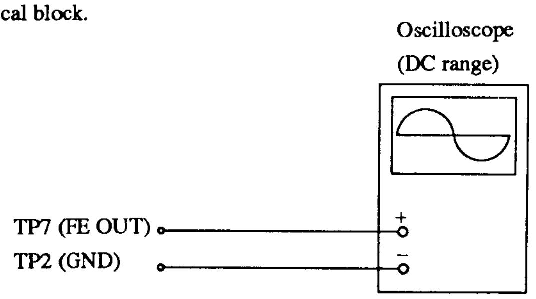
Note: Connect a probe (10:1) of the frequency counter or the oscilloscope to a test point.

1. VCO Frequency Adjustment

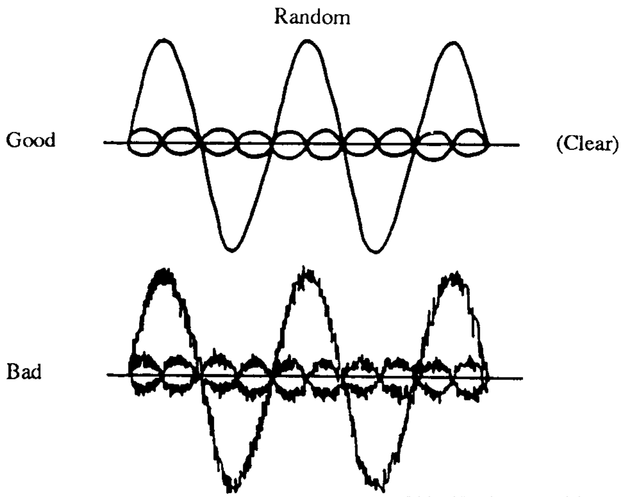
1. Short pin ① and ③ of CON7 with wire.
2. Connect and short between TP3 (ASY) and TP4 (GND).
3. Connect the frequency counter to test points TP1 (VCO) and TP2 (GND).
4. Adjust SFR4 (VCO) so that the frequency counter reading is 4.27±0.02MHz.
5. After the adjustment is completed, remove the short lead wires from TP2 (GND), TP3 (ASY) and TP4.

2. Focus Bias Adjustment

Make the focus bias adjustment when replacing and repairing the optical block.



1. Connect an oscilloscope to test points TP7 (FE OUT) and TP2 (GND).
2. Turn on the power switch.
3. Insert test disc TCD-782 (YEDS-18) and play back the second composition.
4. Adjust SFR2 so that the noise (high frequency) of test point TP7 (FE OUT) is minimized.



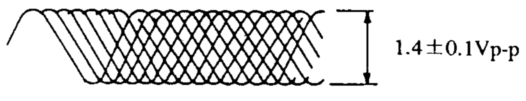
VOLT/DIV: 10mV
TIME/DIV: 1mS

3. RF Waveform Check

This check should be performed whenever the optical system block is replaced in repair.

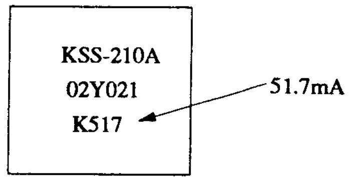
1. Connect an oscilloscope to test points TP9 (RF OUT) and TP2 (GND).
2. Turn on the power switch.
3. Insert test disc TCD-782 (YEDS-18) and play back the second composition.
4. Check that the waveform appears as shown in the figure below.

RF signal waveform



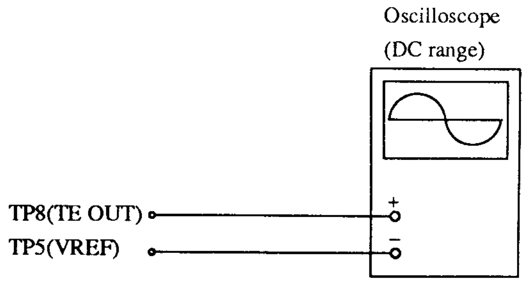
VOLT/DIV: 50mV
TIME/DIV: 1mS

Note: The current of the laser signal can be checked with the voltages on both sides of R4 (10Ω). The difference for the specified value shown on the label must be within ±6.0mA.

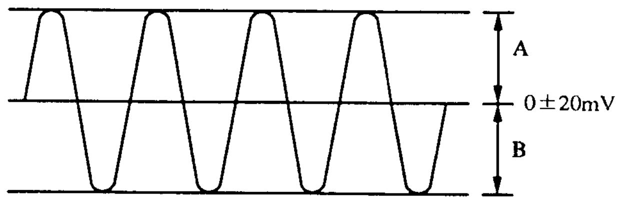


$$\text{Laser current Iop} = \frac{\text{Voltage across R4}}{10\Omega}$$

4. Tracking Balance Adjustment



1. Connect an oscilloscope to test points TP8 (TE OUT) and TP5 (VREF).
2. Connected the intermediate point to GND.
3. Turn on the power switch.
4. Insert test disc TCD-782 (YEDS-18) and press the PLAY (▶) button.
5. Adjust SFR1 so that the waveform on the oscilloscope is vertically symmetrical as shown in the figure below.
6. After the adjustment is completed, remove the ground lead wires from the terminals.



A = B

VOLT/DIV: 20mV
TIME/DIV: 1mS

5. Tracking Gain Adjustment

A servo analyzer is necessary in order to perform this adjustment exactly. However, this gain has a margin, so even if it is slightly off, there is no problem. Therfore, do not perform this adjustment. Focus/tracking gain determines the pick-up follow- up (vertical and horizontal) relative to mechanical noise and mechanical shock when 2-axis device operates. However, as these gains are reciprocate, the adjustment is performed so that both gains are satisfied.

- When gain is raised, the noise increases when the 2-axis device opearates.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.

When the gain adjustment is not satisfied, the symptoms below appear.

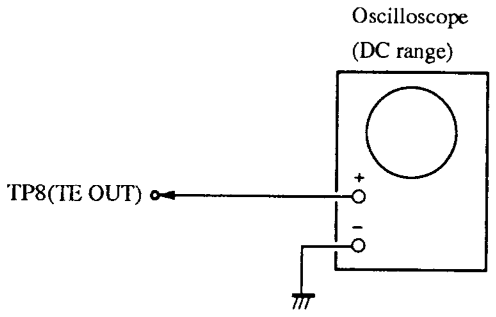
Gain Symptoms	(Focus)	Tracking
●The time until music starts becomes longer for STOP→ ▶ PLAY or automatic selection (|◀◀, ▶▶| buttons pressed.) (Normally takes about 2 seconds.)	Low	Low or High
●Music dose not start and disc continues to rotate for STOP→ ▶ PLAY or automatic selection (|◀◀, ▶▶|buttons pressed.)	—	Low
●Disc stops to rotate shortly after STOP→ ▶PLAY.	Low or High	—
●Sound is interrupted during PLAY. Or time counter display stops.	—	Low
●More noise during the 2-axis device operation.	High	High

The following is simple adjustment method.

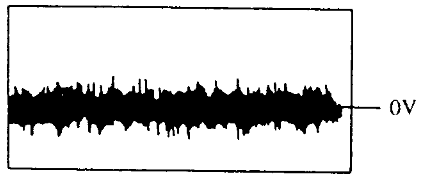
- Simple adjustment -

Note: Since the adjustment cannot be performed exactly, remember the positions of the controls before the adjustment and compare the adjusted position and the original position.
If the difference is a little, return the controls to the original position.

Procedure:



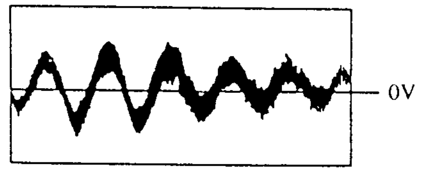
1. Keep the set horizontal. (If the set is not kept horizontally, this adjustment cannot be performed due to the gravity against the 2-axis device.)
2. Insert test disc TCD-782 (YEDS-18) and play back the second composition.
3. Connect an oscilloscope to TP8 (TE OUT) of the main board.
4. Adjust SFR3 so that the waveform appears as shown in the figure below. (tracking gain adjustment)



VOLT/DIV: 5mV
TIME/DIV: 1mS

- Incorrect example (The fundamental wave appears as compared with the waveform adjusted.).

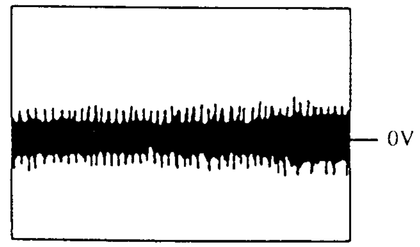
Low tracking gain



VOLT/DIV: 5mV
TIME/DIV: 1mS

High tracking gain

The frecuency of the fundamental wave is higher than that in low gain.



VOLT/DIV: 5mV
TIME/DIV: 1mS

IC DESCRIPTION

IC, μPD78044GF-014

端子番号	端子名称	I/O	機能説明
1 ～ 7	G7 ～ G1	O	FL表示デジット出力
8	VDD	–	電源供給
9	I-$\overline{\text{HOLD}}$	I	AC電源が供給されなくなり，入力が「L」になると，コントローラ内部をホールドモードにする。(クロック停止・メモリ保持)
10	O-FMUTE	O	ミュート出力
11	O-STBF	O	シフトレジスタ (4094) ストローブ信号 (PWB，FRONT)
12	O-CLKF	O	シフトレジスタ・PLL　IC用シリアルデータクロック信号 (PWB，FRONT)
13	O-XLT	O	CD制御用
14	O-CLK/SQCK	O	CD制御用
15	O-DATAC	O	CD制御用 (シリアルデータ)
16	I-SUBQ	I	CD制御用
17	$\overline{\text{RESET}}$	–	リセット入力
18	O-DATAF	O	シフトレジスタ・PLL　IC用シリアルデータ (PWB，FRONT)
19	O-$\overline{\text{POWER}}$	O	電源ON/OFF制御
20	AVSS	–	A/Dコンバータ　グランド電位
21	I-MS	I	ミュージックセンサー信号
22	I-FOK/GFS (A/D)	I	CD制御用
23	I-PHOTO (A/D)	I	CDターンテーブル信号
24	I-CDSW (A/D)	I	CDトレーOPEN/CLOSE・メカアップ/ダウン信号
25	I-KEY1 (A/D)	I	キー入力 (1)
26	I-KEY0 (A/D)	I	キー入力 (0)
27	I-TUNE/ST (A/D)	I	チューナー受信中及びステレオ放送受信中信号入力
28	I-SPEANA (A/D)	I	スペアナ表示用アナログ入力
29	AVDD	–	A/Dコンバータ　アナログ電源
30	AVREF	–	A/Dコンバータ　基準電圧入力
31	I-SENS	I	CD制御用
32	XT2	–	サブクロック端子 (未使用)
33	VSS	–	GND
34 35	X1 X2	–	4.19MHz　発振回路
36	O-$\overline{\text{MUTE}}$	O	ミュート出力
37	O-DISHF	O	ターンテーブルF出力
38	O-DISHR	O	ターンテーブルR出力
39	O-OPEN	O	トレーオープン出力
40	O-CLOSE	O	トレークローズ出力
41	O-CLKM	O	シフトレジスタ・PLL　IC用シリアルデータクロック信号 (PWB，MAIN)
42	O-DATAM	O	シフトレジスタ・PLL　IC用シリアルデータ (PWB，MAIN)
43	O-STBM	O	シフトレジスタ (4094) ストローブ信号 (PWB，MAIN)
44	O-PLLCE	O	チューナー用PLL　ICチップエナブル出力
45	I-SCOR	I	CD制御用
46	O-$\overline{\text{SWSCAN}}$	O	スイッチスキャンタイミング出力
47	I-RMC	O	リモートコントロール信号
48	IC	–	GND (内部接続)
49	O-$\overline{\text{SOL2}}$	O	ソレノイド2出力
50	O-$\overline{\text{SOL1}}$	O	ソレノイド1出力
51	O-$\overline{\text{MOTOR}}$	O	デッキモーター出力
52	VDD	–	電源供給
53 ～ 68	a ～ p	I/O	FL表示セグメント出力及びスイッチスキャン
69 70	q r	O	FL表示セグメント出力
71	V-LOAD	–	FL表示用電源 (負)
72 ～ 76	s ～ w	O	FL表示セグメント出力
77 ～ 80	G11 ～ G8	O	FL表示用デジット出力

IC, BU4094BF (IC401)

端子番号	端子名称	I/O	機能説明
4	Q1 ($\overline{\text{CD}}$)	O	LED出力　FUNCTION　CD
5	Q2 ($\overline{\text{TAPE}}$)	O	LED出力　FUNCTION　TAPE
6	Q3 ($\overline{\text{AUX}}$)	O	LED出力　FUNCTION　AUX
7	Q4 ($\overline{\text{TUNER}}$)	O	LED出力　FUNCTION　TUNER
11	Q8 (VR UP)	O	モーターボリュウムコントロール出力　UP
12	Q7 (VR DN)	O	モーターボリュウムコントロール出力　DOWN
13	Q6 (GEQB)	O	グライココントロール出力　B
14	Q5 (GEQA)	O	グライココントロール出力　A

IC, BU4094BF (IC402)

端子番号	端子名称	I/O	機能説明
4	Q1 ($\overline{\text{PAUSE}}$)	O	LED出力　PAUSE
5	Q2 ($\overline{\text{STOP}}$)	O	LED出力　STOP
6	Q3 ($\overline{\text{REV}}$)	O	LED出力　REV
7	Q4 ($\overline{\text{FWD}}$)	O	LED出力　FWD
11	Q8 ($\overline{\text{FF}}$)	O	LED出力　FF
12	Q7 ($\overline{\text{REW}}$)	O	LED出力　REW
13	Q6 (–)	–	–
14	Q5 (–)	–	–

IC, BU4094BF (IC403)

端子番号	端子名称	I/O	機　能　説　明
4	Q1 (HSP)	O	DECKモータースピードコントロール出力　ノーマル/ハイ
5	Q2 ($\overline{\text{DISC1}}$)	O	LED出力　DISC　1
6	Q3 ($\overline{\text{DISC2}}$)	O	LED出力　DISC　2
7	Q4 ($\overline{\text{DISC3}}$)	O	LED出力　DISC　3
11	Q8 (SPE RE)	O	スペアナIC　コントロール出力　RESET
12	Q7 (SPE A)	O	スペアナIC　コントロール出力　A
13	Q6 (SPE B)	O	スペアナIC　コントロール出力　B
14	Q5 (SPE C)	O	スペアナIC　コントロール出力　C

IC, BU4094 (IC602)

端子番号	端子名称	I/O	機　能　説　明
4	Q1 (BEAT)	O	TUNER　ビート　切換出力
5	Q2 (FM AUTO/EMPH)	O	TUNER　AUTO/CD　エンファシス切換出力
6	Q3 (REC/$\overline{\text{PB}}$)	O	録音/再生　切換出力
7	Q4 (DOLBY ON/OFF)	O	DOLBY　ON/OFF　切換出力
11	Q8 (BIAS)	O	DECK　バイアス　出力
12	Q7 (RMT)	O	DECK　RECミュート　出力
13	Q6 (HSP)	O	DECK　ハイスピードイコライザー　切換出力
14	Q5 (1PB)	O	DECK1/DECK2　再生切換出力

IC, BU4094 (IC603)

端子番号	端子名称	I/O	機　能　説　明
4	Q1 (VOCAL F)	O	ボーカル・フェーダー出力
5	Q2 (T-BASS A)	O	T-BASS　コントロール出力　A
6	Q3 (T-BASS B)	O	T-BASS　コントロール出力　B
7	Q4 (T-BASS $\overline{\text{ON}}$)	O	T-BASS　ON/OFF　切換出力
11	Q8 (CD ON)	O	CD　ON/OFF　切換出力
12	Q7 (FUNC-B)	O	FUNCTION　コントロール出力　B
13	Q6 (FUNC-A)	O	FUNCTION　コントロール出力　A
14	Q5 (−)	−	−

IC DESCRIPTION

IC, µPD78044GF-014

Pin No.	Pin Name	I/O	Description
1 ～ 7	G7 ～ G1	O	FL Display digit output.
8	VDD	−	Power supply.
9	I-$\overline{\text{HOLD}}$	I	When the AC power is not supplied and the input "L", the controller is held (clock stop and memory maintain).
10	O-FMUTE	O	Mute output.
11	O-STBF	O	Shift register (4094) strobe signal (PWB, FRONT).
12	O-CLKF	O	Serial data clock signal for the shift register, PLL IC (PWB, FRONT).
13	O-XLT	O	CD control.
14	O-CLK/SQCK	O	CD control.
15	O-DATAC	O	CD control (serial data).
16	I-SUBQ	I	CD control.
17	$\overline{\text{RESET}}$	−	Reset input.
18	O-DATAF	O	Serial data for the shift register, PLL IC (PWB, FRONT).
19	O-$\overline{\text{POWER}}$	O	Power ON/OFF control.
20	AVSS	−	A/D converter ground.
21	I-MS	I	Music sensor signal.
22	I-FOK/GFS (A/D)	I	CD control.
23	I-PHOTO (A/D)	I	CD turn table signal.
24	I-CDSW (A/D)	I	CD tray OPEN/CLOSE, mechanism UP/DOWN signal.
25	I-KEY1 (A/D)	I	Key data input (1).
26	I-KEY0 (A/D)	I	Key data input (0).
27	I-TUNE/ST (A/D)	I	Signal input while the tuner is receiving signals and the stereo system signal.
28	I-SPEANA (A/D)	I	Analog input for the spectrum analyzer.
29	AVDD	−	A/D converter analog power supply.
30	AVREF	−	A/D converter reference voltage.
31	I-SENS	I	CD control.
32	XT2	−	Sub clock terminal (Not used).
33	VSS	−	GND.
34 35	X1 X2	−	4.19MHz oscillation circuit.
36	O-$\overline{\text{MUTE}}$	O	Mute output.
37	O-DISHF	O	Turn table F output.
38	O-DISHR	O	Turn table R output.
39	O-OPEN	O	CD tray OPEN output.
40	O-CLOSE	O	CD tray CLOSE output.
41	O-CLKM	O	Shift register clock signal for the shift register, PLL IC (PWB, MAIN).
42	O-DATAM	O	Serial data for the shift register PLL IC.
43	O-STBM	O	Shift register (4094) strobe signal (PWB, MAIN).
44	O-PLLCE	O	PLL IC chip enable output for the tuner.
45	I-SCOR	I	CD control.
46	O-$\overline{\text{SWSCAN}}$	O	Switch scan timing output.

Pin No.	Pin Name	I/O	Description
47	I-RMC	O	Remote control signal.
48	IC	–	GND (connected internal).
49	O-$\overline{\text{SOL2}}$	O	Solenoid 2 output.
50	O-$\overline{\text{SOL1}}$	O	Solenoid 1 output.
51	O-$\overline{\text{MOTOR}}$	O	Deck motor output.
52	VDD	–	Power supply.
53 ~ 68	a ~ p	I/O	FL display segment output and switch scan.
69 70	q r	O	FL display segment output.
71	V-LOAD	–	FL display power (negative).
72 ~ 76	s ~ w	O	FL display segment output.
77 ~ 80	G11 ~ G8	O	FL dispay digit output.

IC, BU4094 (IC401)

Pin No.	Pin Name	I/O	Description
4	Q1 ($\overline{\text{CD}}$)	O	LED output (function CD).
5	Q2 ($\overline{\text{TAPE}}$)	O	LED output (function TAPE).
6	Q3 ($\overline{\text{AUX}}$)	O	LED output (function AUX).
7	Q4 ($\overline{\text{TUNER}}$)	O	LED output (function TUNER).
11	Q8 (VR UP)	O	Motor volume control output (UP).
12	Q7 (VR DN)	O	Motor volume control output (DOWN).
13	Q6 (GEQB)	O	Graphic equalizer control outplut B.
14	Q5 (GEQA)	O	Graphic equalizer control output A.

IC, BU4094 (IC402)

Pin No.	Pin Name	I/O	Description
4	Q1 ($\overline{\text{PAUSE}}$)	O	LED output (PAUSE).
5	Q2 ($\overline{\text{STOP}}$)	O	LED output (STOP).
6	Q3 ($\overline{\text{REV}}$)	O	LED output (REV).
7	Q4 ($\overline{\text{FWD}}$)	O	LED output (FWD).
11	Q8 ($\overline{\text{FF}}$)	O	LED output (FF).
12	Q7 ($\overline{\text{REW}}$)	O	LED output (REW).
13	Q6 (–)	–	–
14	Q5 (–)	–	–

IC, BU4094 (IC403)

Pin No.	Pin Name	I/O	Description
4	Q1 (HSP)	O	DECK motor speed control output (normal/high).
5	Q2 ($\overline{\text{DISC1}}$)	O	LED output (DISC 1).
6	Q3 ($\overline{\text{DISC2}}$)	O	LED output (DISC 2).
7	Q4 ($\overline{\text{DISC3}}$)	O	LED output (DISC 3).
11	Q8 (SPE RE)	O	Spectrum analyzer IC control output (RESET).
12	Q7 (SPE A)	O	Spectrum analyzer IC control output (A).
13	Q6 (SPE B)	O	Spectrum analyzer IC control output (B).
14	Q5 (SPE C)	O	Spectrum analyzer IC control output (C).

IC, BU4094 (IC602)

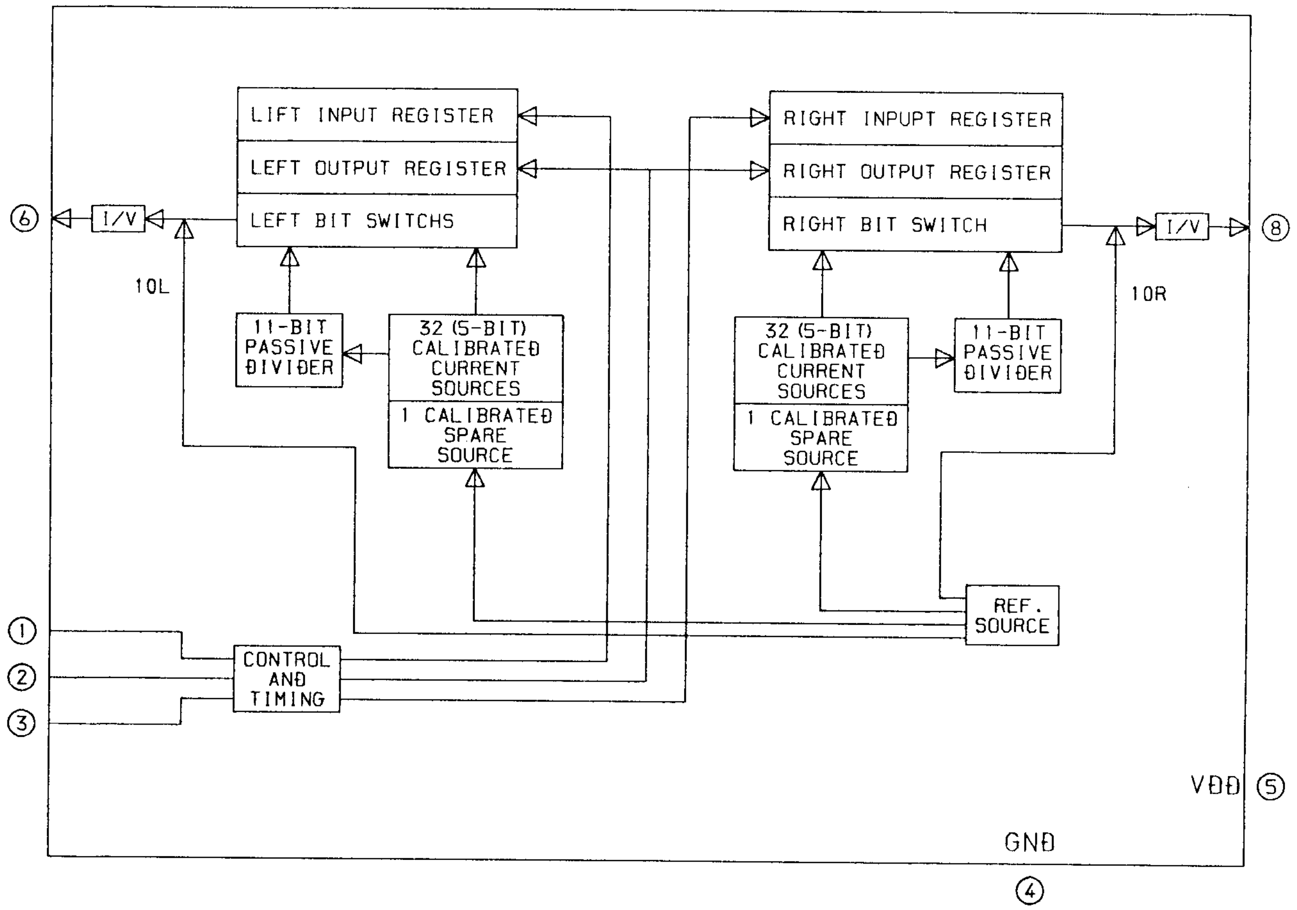
Pin No.	Pin Name	I/O	Description
4	Q1 (BEAT)	O	TUNER beat switching output.
5	Q2 (FM AUTO/EMPH)	O	TUNER AUTO/CD emphasis switching output.
6	Q3 (REC/$\overline{\text{PB}}$)	O	Record/playback switching output.
7	Q4 (DOLBY ON/OFF)	O	DOLBY ON/OFF switching output.
11	Q8 (BIAS)	O	DECK bias output.
12	Q7 (RMT)	O	DECK REC mute output.
13	Q6 (HSP)	O	DECK high speed equalizer switching output.
14	Q5 (1PB)	O	DECK 1/DECK 2 playback switching output.

IC, BU4094 (IC603)

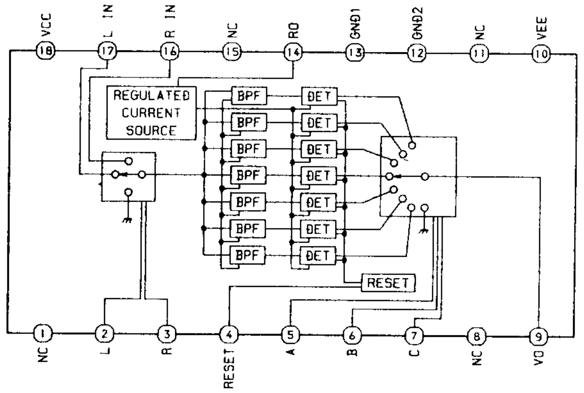
Pin No.	Pin Name	I/O	Description
4	Q1 (VOCAL F)	O	Vocal fader output.
5	Q2 (T-BASS A)	O	T-BASS control output A.
6	Q3 (T-BASS B)	O	T-BASS control output B.
7	Q4 (T-BASS $\overline{\text{ON}}$)	O	T-BASS ON/OFF switching output.
11	Q8 (CD ON)	O	CD ON/OFF switching output.
12	Q7 (FUNC-B)	O	FUNCTION control output B.
13	Q6 (FUNC-A)	O	FUNCTION control output A.
14	Q5 (–)	–	–

IC BLOCK DIAGRAM

TDA1311T


LIFT INPUT REGISTER
LEFT OUTPUT REGISTER
LEFT BIT SWITCHS
RIGHT INPUPT REGISTER
RIGHT OUTPUT REGISTER
RIGHT BIT SWITCH
I/V
I/V
10L
10R
11-BIT PASSIVE DIVIDER
32 (5-BIT) CALIBRATED CURRENT SOURCES
1 CALIBRATED SPARE SOURCE
32 (5-BIT) CALIBRATED CURRENT SOURCES
1 CALIBRATED SPARE SOURCE
11-BIT PASSIVE DIVIDER
REF. SOURCE
CONTROL AND TIMING
VDD
GND
①
②
③
④
⑤
⑥
⑧

BA3826S


VCC
L IN
R IN
NC
RO
GND1
GND2
NC
VEE
18
17
16
15
14
13
12
11
10
REGULATED CURRENT SOURCE
BPF
DET
RESET
1
2
3
4
5
6
7
8
9
NC
L
R
RESET
A
B
C
NC
VO

INPUT SELECTOR LOGIC TABLE

入力切換えロジック表

SELECTOR		INPUT
L(5PIN)	R(6PIN)	
L	L	UNDETERMINED 不 定
L	H	L IN
H	L	R IN
H	H	OFF

OUTPUT SELECTOR LOGIC TABLE

出力切換えロジック表

SELECT			OUTPUT
A(5PIN)	B(6PIN)	C(7PIN)	VO(9PIN)
H	H	H	0
L	H	H	F01
H	L	H	F02
L	L	H	F03
H	H	L	F04
L	H	L	F05
H	L	L	F06
L	L	L	F07

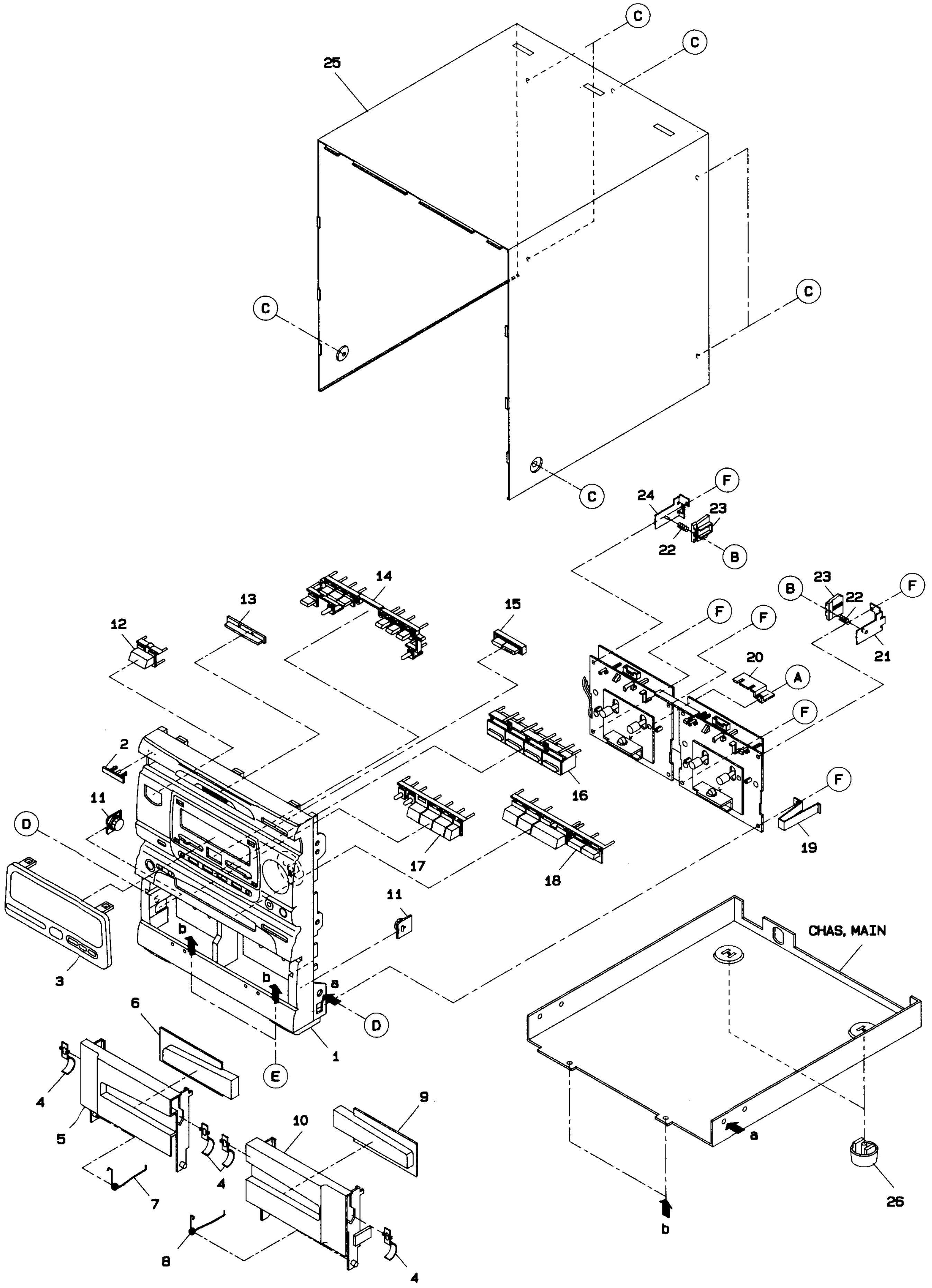
下記のICブロック図は、XG－330のサービスマニュアルを参照して下さい。
See the NSX－330 for the IC block diagram below.

XG－500／NSX－500／NSX－3500	XG－330／NSX－330
IC,BA6296FP	IC,BA6296FP
IC,BU4052B	IC,BU4052B
IC,HA12134A	IC,HA12134A
IC,LA1265	IC,LA1265
IC,LB1641	IC,LB1641
IC,TA7343AP	IC,TA7343AP
IC,TA8124	IC,TA8124

下記のIC端子説明は、XG－330のサービスマニュアルを参照して下さい。
See the NSX－330 for the IC description below.

XG－500／NSX－500／NSX－3500	XG－330／NSX－330
IC,LM7001M	IC,LM7001M
IC,CXA1081M	IC,CXA1081M
IC,CXA1082BQ	IC,CXA1082BQ
IC,CXD1167Q	IC,CXD1167Q

MECHANICAL EXPLODED VIEW 1/3

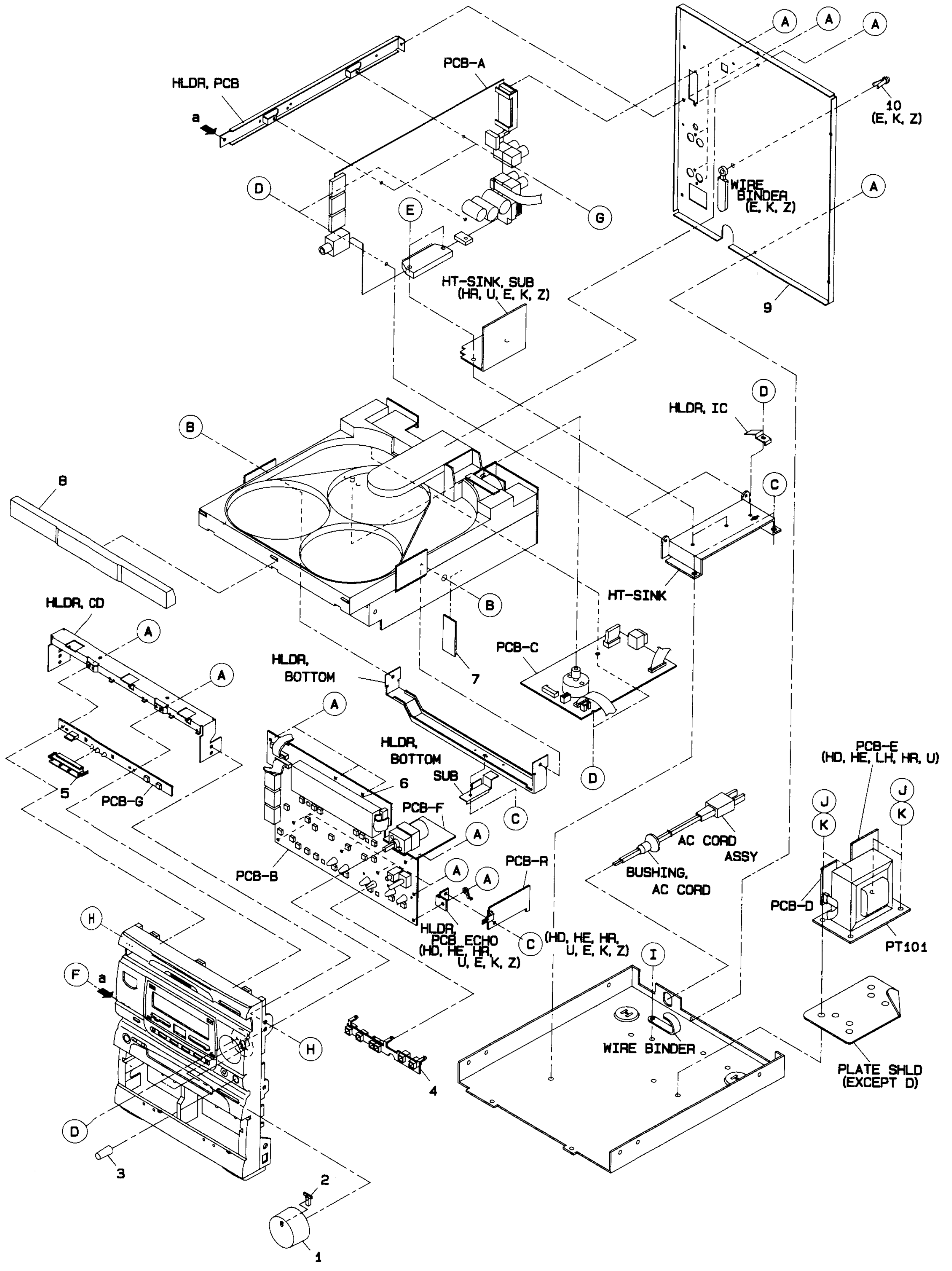


MECHANICAL PARTS LIST 1/3

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	82-NF5-041-019	2M	CAB ASSY, FR (D)
1	82-NF5-042-019		CAB ASSY, FR HE (HD, HE, HR)
1	82-NF5-045-019		CAB ASSY, FR LH (LH)
1	82-NF5-043-019		CAB ASSY, FR U (U)
1	82-NF5-044-019		CAB ASSY, E (E, K, Z)
2	82-NE8-032-019	1A	BADGE, AIWA 27.5
3	82-NF5-013-010	1F	WINDOW, DISPLAY
4	81-MX4-223-019	0E	SPR-P, CASS
5	82-NF5-003-019	1D	BOX, CASS 1 (D)
5	82-NF5-034-01S		BOX, CASS 1 EX (EXCEPT D)
6	82-NF5-014-010	1A	WINDOW, CASS 1
7	82-NF5-218-019	0E	SPR-T, EJECT 1
8	82-NF5-219-019	0E	SPR-T, EJECT 2
9	82-NF5-015-010	1A	WINDOW, CASS 2
10	82-NF5-004-019	1D	BOX, CASS 2 (D)
10	82-NF5-035-01S		BOX, CASS 2 EX (EXCEPT D)
11	87-063-165-019	0E	OIL-DMPR 150
12	82-NF5-005-010	0E	KEY, POWER
13	82-NF5-020-010	0E	IND, DISC
14	82-NF5-019-019	1B	KEY, GEQ T (D)
14	82-NF5-007-01S		KEY, GEQ (EXCEPT D)
15	82-NF5-006-010	1A	KEY, CD
16	82-NF5-008-010	1F	KEY ASSY, FUN
17	82-NF5-011-010	1B	KEY, REC
18	82-NF5-010-010	1C	KEY, PLAY
19	82-NF5-216-019	0E	PLATE, EARTH MECHA
20	82-ZM3-213-010	0E	PLATE, SHLD
21	82-NF5-205-010	1A	HLDR ASSY, LOCK 2
22	80-MV3-210-110	0E	SPR-C, LOCK (D, HD)
22	80-MV3-218-019		SPR-C, LOCK (EXCEPT D, HD)
23	80-CD3-233-010	0E	PLATE, LOCK
24	82-NF5-204-010	1A	HLDR ASSY, LOCK 1
25	82-NF5-017-019	2M	CAB, STEEL (D, HD, HE, HR, LH U, EE, K, Z)
25	82-NF5-036-018		CAB, STEEL (E)
26	87-085-221-010	0E	FOOT, H 13.5
A	87-571-032-410	0E	VIT+2-3
B	87-081-808-010	0E	PW, 1.7-3.5-0.25
C	87-067-641-010	0E	UTT2+3-8 BLK
D	87-591-094-410	0E	QIT+3-6
E	87-067-716-010	0E	BVTT+3-6 BLK
F	87-067-761-010	0E	BVT2+3-10 BLK

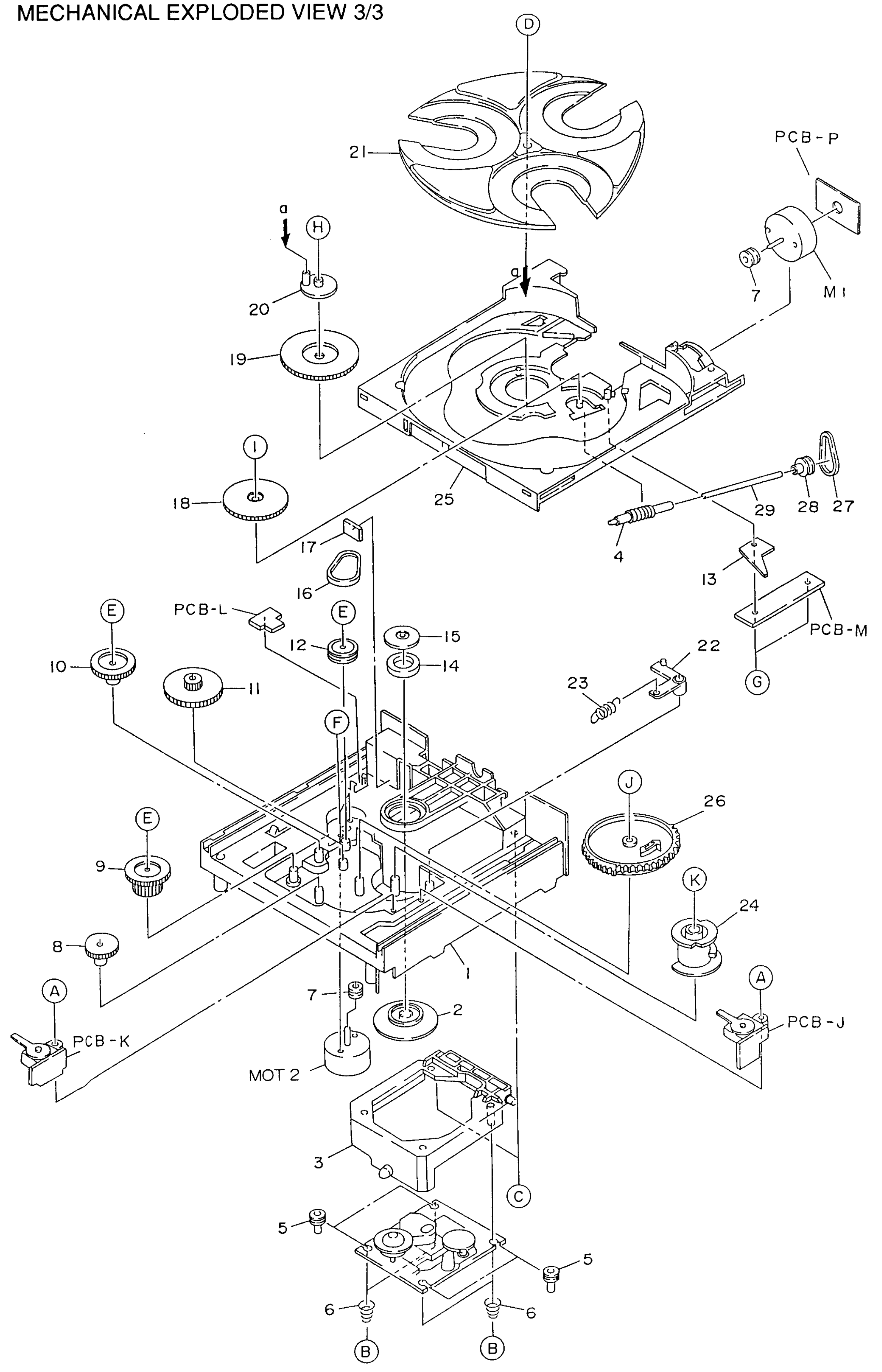
MECHANICAL EXPLODED VIEW 2/3


HLDR, PCB
a
PCB-A
A
A
A
10
(E, K, Z)
D
E
G
WIRE
BINDER
(E, K, Z)
A
HT-SINK, SUB
(HR, U, E, K, Z)
9
HLDR, IC
D
C
B
8
HT-SINK
B
HLDR, CD
A
A
HLDR,
BOTTOM
7
PCB-C
A
HLDR,
BOTTOM
SUB
6
PCB-F
C
D
5
PCB-G
PCB-B
A
AC CORD
ASSY
BUSHING,
AC CORD
PCB-E
(HD, HE, LH, HR, U)
J
K
J
K
A
A
PCB-R
HLDR,
PCB ECHO
(HD, HE, HR,
U, E, K, Z)
C
(HD, HE, HR,
U, E, K, Z)
PCB-D
PT101
H
I
F
a
H
WIRE BINDER
4
PLATE SHLD
(EXCEPT D)
D
3
2
1

MECHANICAL PARTS LIST 2/3

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	82-NF5-012-010	1A	KNOB, VOL
2	82-NE6-016-019	0E	IND, MAIN
3	81-MX4-019-019	0E	KNOB, MIC
4	82-NF5-213-019	0E	GUIDE LED
5	82-NF5-214-010	0E	GUIDE DISC
6	82-NF5-212-010	1A	GUIDE, FL
7	87-085-227-010	0E	SH, 12.5-5-0.5
8	82-NF5-018-019	1C	PANEL, TRAY (D)
8	82-NF5-031-019		PANEL, TRAY EX (EXCEPT D)
9	82-NF5-002-219	1H	PANEL, REAR B (D)
9	82-NF5-052-01S		PANEL, REAR HDB (HD)
9	82-NF5-023-019		PANEL, REAR HEJBNM (HE)
9	82-NF5-051-019		PANEL, REAR HRJBNM (HR)
9	82-NF5-024-019		PANEL, REAR LHJBNM (LH)
9	82-NF5-025-019		PANEL, REAR UBNM (U)
9	82-NF5-071-019		PANEL, REAR EBNM (E)
9	82-NF5-053-019		PANEL, REAR KBNM (K)
9	82-NF5-028-019		PANEL, REAR ZBNE (Z)
10	87-084-077-019		NYLON RIVET 3.5-4.5 (E, K, Z)
A	87-067-761-010	0E	BVT2+3-10 BLK
B	87-067-641-010	0E	UTT2+3-8 W/O SLOT BLK
C	87-067-716-010	0E	BVTT+3-6 BLK
D	87-067-579-010	0E	BVT2+3-8 W/O SLOT
E	87-067-581-019	0E	BVT2+3-15 W/O (D, HD, HE, LH)
E	87-067-698-010		BVT2+3-18 W/O (HR, U, E, K, Z)
F	87-591-094-410	0E	QIT+3-6
G	87-067-633-010	0E	BVT2+3-8 W CONVEX
H	87-721-097-410	0E	QT2+3-12 GOLD
I	87-067-585-010	0E	BVTT+4-6
J	87-078-019-019	0E	S-SCREW, IT+4-6 (D)
J	87-067-586-010		BVTT+4-8 (EXCEPT D)
K	87-422-308-010		SW4 (EXCEPT D)

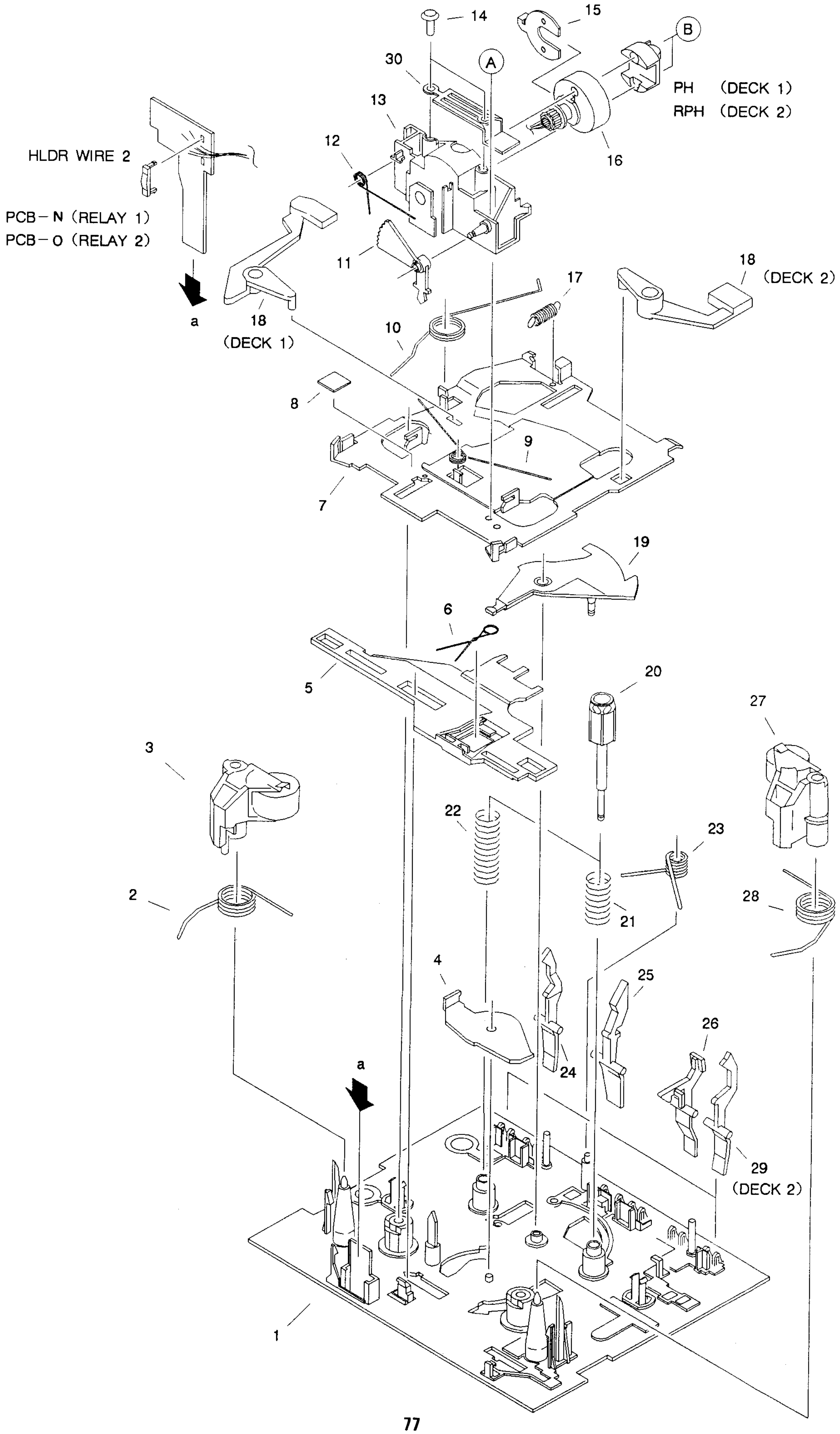
MECHANICAL EXPLODED VIEW 3/3



MECHANICAL PARTS LIST 3/3

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	81-ZG1-261-010	2M	CHAS, MECH M (D, HD)
1	81-ZG1-246-119		CHAS, MECH M (EXCEPT D, HD)
2	81-ZG1-228-110	1A	HLDR, MAGNET
3	81-ZG1-253-01S	1F	HLDR, MECH MK2
4	81-ZG1-221-010	0E	WORM GEAR, TT
5	81-ZG1-230-010	1A	G-CUSH, MECH
6	81-ZG1-231-010	0E	SPR-C, MECH
7	81-ZG1-212-010	0E	PULLY, LOAD MO
8	81-ZG1-250-019	0E	GEAR, TRAY RELAY MK2
9	81-ZG1-257-019	1A	GEAR, TRAY B MK2
10	81-ZG1-256-019	0E	GEAR, TRAY A MK2
11	81-ZG1-251-019	0E	GEAR, RELAY MK2
12	81-ZG1-211-010	0E	PULLEY, RELAY
13	81-ZG1-240-010	0E	SPR-P, WORM
14	86-531-219-010	1B	MAGNET, CLAMPER
15	81-ZG1-255-01S	0E	PLATE, MAGNET
16	81-ZG1-232-010	0E	BELT, TRAY
17	81-ZG1-238-110	0E	CUSH, TRAY IN
18	81-ZG1-222-010	1A	WORM WHEEL, TT
19	81-ZG1-202-010	1A	GEAR, MAIN
20	81-ZG1-252-010	1A	LEVER, TT MK2
21	81-ZG1-002-110	2A	TURNTABLE (D, HD)
21	81-ZG1-008-119		TURNTABLE, NO2 (EXCEPT D, HD)
22	81-ZG1-213-110	0E	PLATE, CAM
23	81-ZG1-235-010	0E	SPR-E, CAM
24	81-ZG1-206-110	1B	GEAR, MECH CAM
25	81-ZG1-001-110	2M	TRAY (D, HD)
25	81-ZG1-011-019		TRAY, MK2 (EXCEPT D, HD)
26	81-ZG1-205-110	1B	GEAR, TRAY CAM
27	81-ZG1-233-110	0E	BELT, TT
28	81-ZG1-236-010	0E	PULLEY, TT MO
29	81-ZG1-260-019	1A	SHAFT, WORM S
A	81-653-215-010	0E	SPECIAL SCREW VT2
B	81-ZG1-254-01S	0E	S-SCREW, MECH HLDR
C	87-561-096-210	0E	VFT1+3-10
D	81-ZG1-239-010	0E	S-SCREW, TT
E	87-067-945-110	0E	VFT1+3-12
F	87-251-071-410	0E	U+2.6-4
G	87-067-579-010	0E	BVT2+3-8 W/O SLOT
H	87-078-029-010	0E	VFT2+3-13
I	87-761-095-410	0E	VFT2+3-8
J	81-ZG1-264-010	0E	S-SCREW CAM
K	87-067-828-010	0E	VFT2+3-15 DIA 10

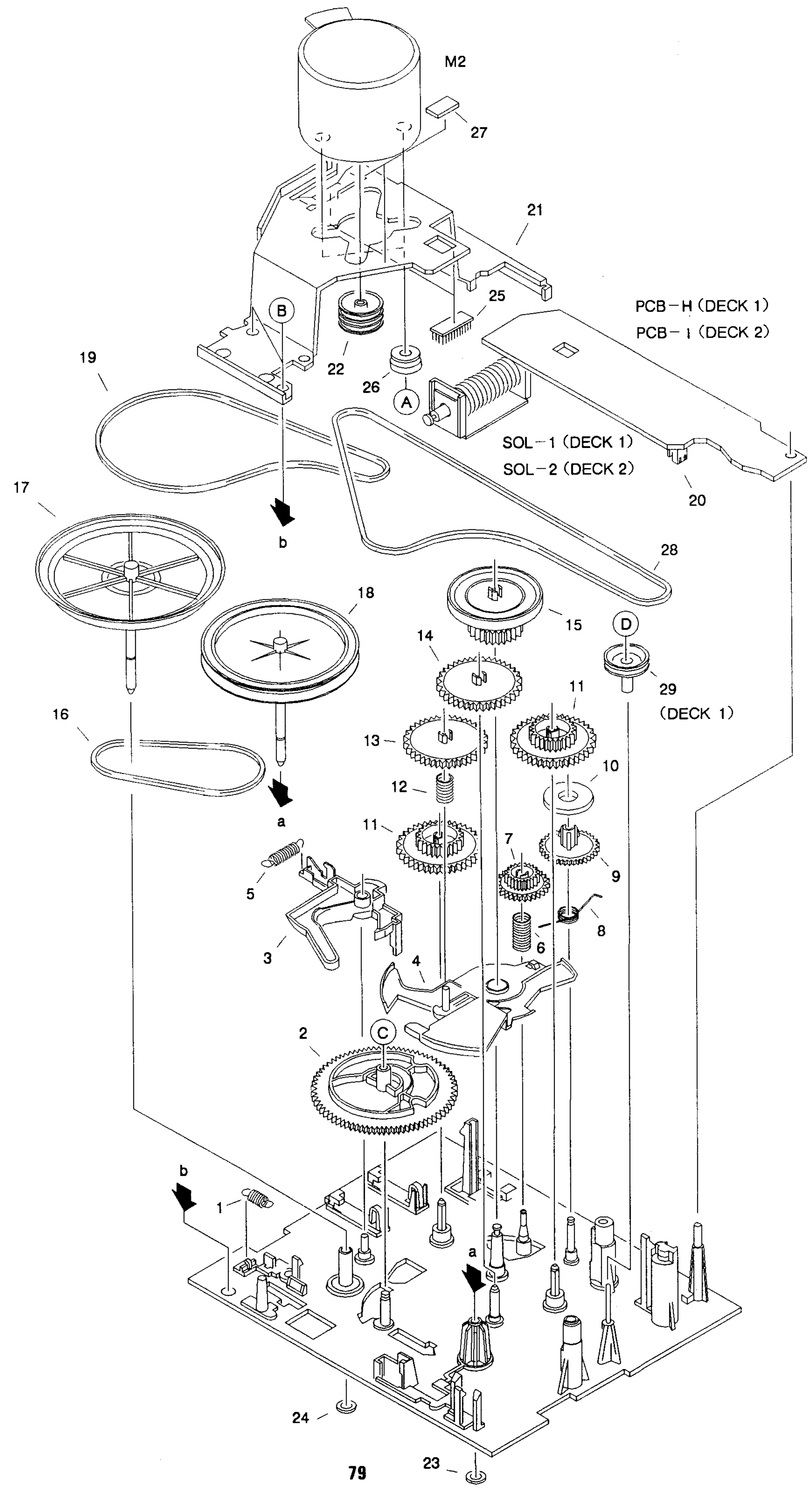
DECK MECHANISM EXPLODED VIEW 1/2


14
15
30
A
B
13
PH (DECK 1)
RPH (DECK 2)
HLDR WIRE 2
12
16
PCB－N (RELAY 1)
PCB－O (RELAY 2)
11
18
(DECK 2)
17
a
18
(DECK 1)
10
8
9
7
19
6
20
5
27
3
22
23
2
21
28
4
25
26
24
a
29
(DECK 2)
1

DECK MECHANISM PARTS LIST 1/2

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
1	82-ZM3-211-010	1D	CHAS ASSY, M3 (DECK 1)
1	82-ZM1-201-010	1D	CHAS ASSY, MECH (DECK 2)
2	82-ZM1-258-010	0E	SPR-T, PINCH L
3	82-ZM1-248-110	1A	LVR ASSY, PINCH L
4	82-ZM1-295-110	0E	PLATE ASSY, LINK
5	82-ZM1-266-010	0E	LVR, DIR
6	82-ZM1-214-010	0E	SPR-T, DIR
7	82-ZM1-206-010	1A	CHAS, HEAD
8	87-078-014-019	0E	SH, 5-5-0.05
9	82-ZM1-269-010	0E	SPR-T, BRG
10	82-ZM1-219-010	0E	SPR-T, LINK
11	82-ZM1-210-010	0E	GEAR, H T
12	82-ZM1-213-010	0E	SPR-T, HEAD
13	82-ZM1-207-010	1A	GUIDE, TAPE
14	82-ZM1-283-210	0E	S-SCREW, AZIMUTH
15	82-ZM1-209-010	0E	PLATE, HEAD
16	82-ZM1-208-010	0E	HLDR, HEAD
17	82-ZM1-218-010	0E	SPR-E, HB
18	82-ZM1-263-110	0E	LVR, EJECT L (DECK 1)
18	82-ZM1-264-010	0E	LVR, EJECT R (DECK 2)
19	82-ZM1-222-010	0E	LVR, PLAY
20	82-ZM1-217-010	0E	REEL TABLE
21	82-ZM1-244-010	0E	SPR-C, BT
22	82-ZM1-285-010	0E	SPR-C, BT L
23	82-ZM1-257-010	0E	SPR-T, CAS
24	82-ZM1-241-010	0E	LVR, MC
25	82-ZM1-242-010	0E	LVR, CAS
26	82-ZM1-243-010	0E	LVR, STOP
27	82-ZM1-253-110	1A	LVR ASSY, PINCH R
28	82-ZM1-259-010	0E	SPR-T, PINCH R
29	82-ZM1-240-010	0E	LVR, REC (DECK 2)
30	82-ZM1-298-010	0E	SPR-P, EARTH
A	87-585-036-410	0E	UIT+2-8
B	80-ZM6-207-019	0E	V+1.6-7

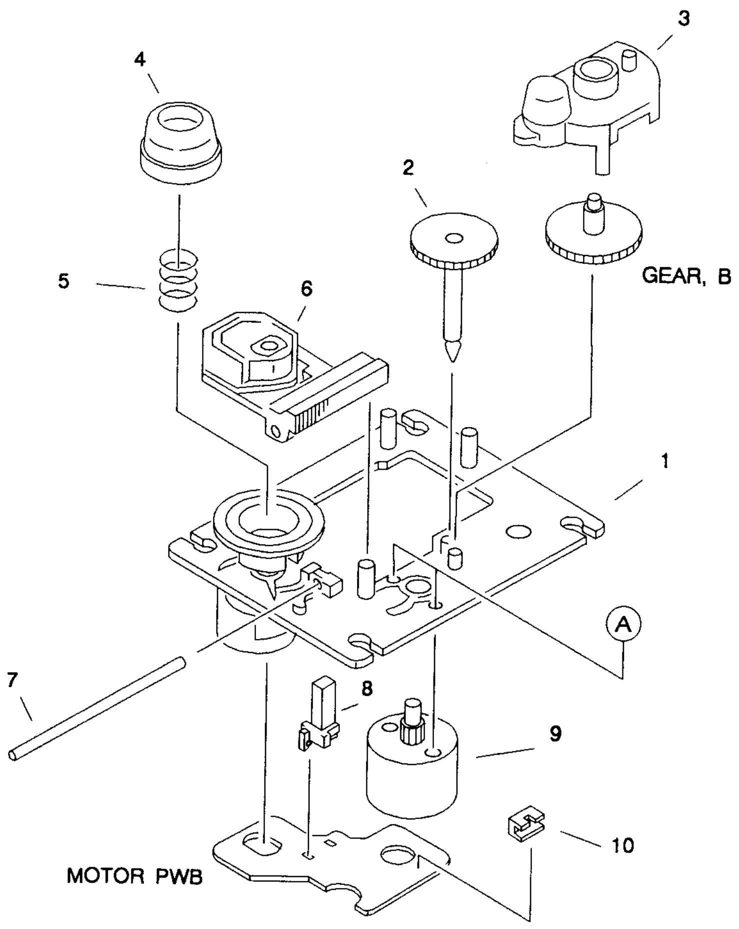
DECK MECHANISM EXPLODED VIEW 2/2



DECK MECHANISM PARTS LIST 2/2

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
1	82-ZM1-255-110	0E	SPR-E, LVR DIR
2	82-ZM1-221-110	0E	GEAR, CAM
3	82-ZM1-227-010	0E	LVR, TRIG
4	82-ZM1-224-010	0E	LVR, FR
5	82-ZM1-265-010	0E	SPR-E, TRIG
6	82-ZM1-277-010	0E	SPR-C, PLAY
7	82-ZM1-223-010	0E	GEAR, PLAY
8	82-ZM1-256-010	0E	SPR-T, FR
9	82-ZM1-220-010	0E	GEAR, IDLER
10	80-ZM6-217-010	0E	RING MAGNET 2
11	82-ZM1-216-110	0E	GEAR, REEL
12	82-ZM1-276-010	0E	SPR-C, FR
13	82-ZM1-225-010	0E	GEAR, FR
14	82-ZM1-226-010	0E	GEAR, REW
15	82-ZM1-228-110	1B	SLIP DISK ASSY
16	82-ZM1-261-110	0E	BELT, FR
17	82-ZM3-209-010	1B	FLY-WHL ASSY, R2 (DECK 1)
17	82-ZM1-237-010	1B	FLY-WHL ASSY, R (DECK 2)
18	82-ZM3-207-010	1B	FLY-WHL ASSY, L2 (DECK 1)
18	82-ZM1-234-010	1B	FLY-WHL ASSY, L (DECK 2)
19	82-ZM3-206-010	0E	BELT, R
20	82-ZM1-245-010	0E	HLDR, IC
21	82-ZM3-201-010	1A	HLDR, MC
22	82-ZM3-202-010	0E	PULLEY, MOT 2M
23	82-ZM1-288-010	0E	SH, 1.63-3.2-0.5 SLT
24	80-ZM6-243-010	0E	SH, 1.75-3.6-0.5 SLT
25	80-ZM6-230-010	0E	SH, BELT
26	86-575-242-010	0E	CUSH-G, DIA 3.7-9-3.2
27	86-575-361-010	0E	CUSH-G, 6-8-0.8
28	82-ZM3-205-010	0E	BELT, L
29	82-ZM3-204-010	0E	PULLEY COUPLER
A	86-575-243-010	0E	S-SCRW, MOTOR
B	87-067-178-019	0E	VTT+2.6-3
C	87-067-932-019	0E	PW, 2.15-6.8-0.5
D	87-067-972-019	0E	PW, 1.05-3-0.25 SLT

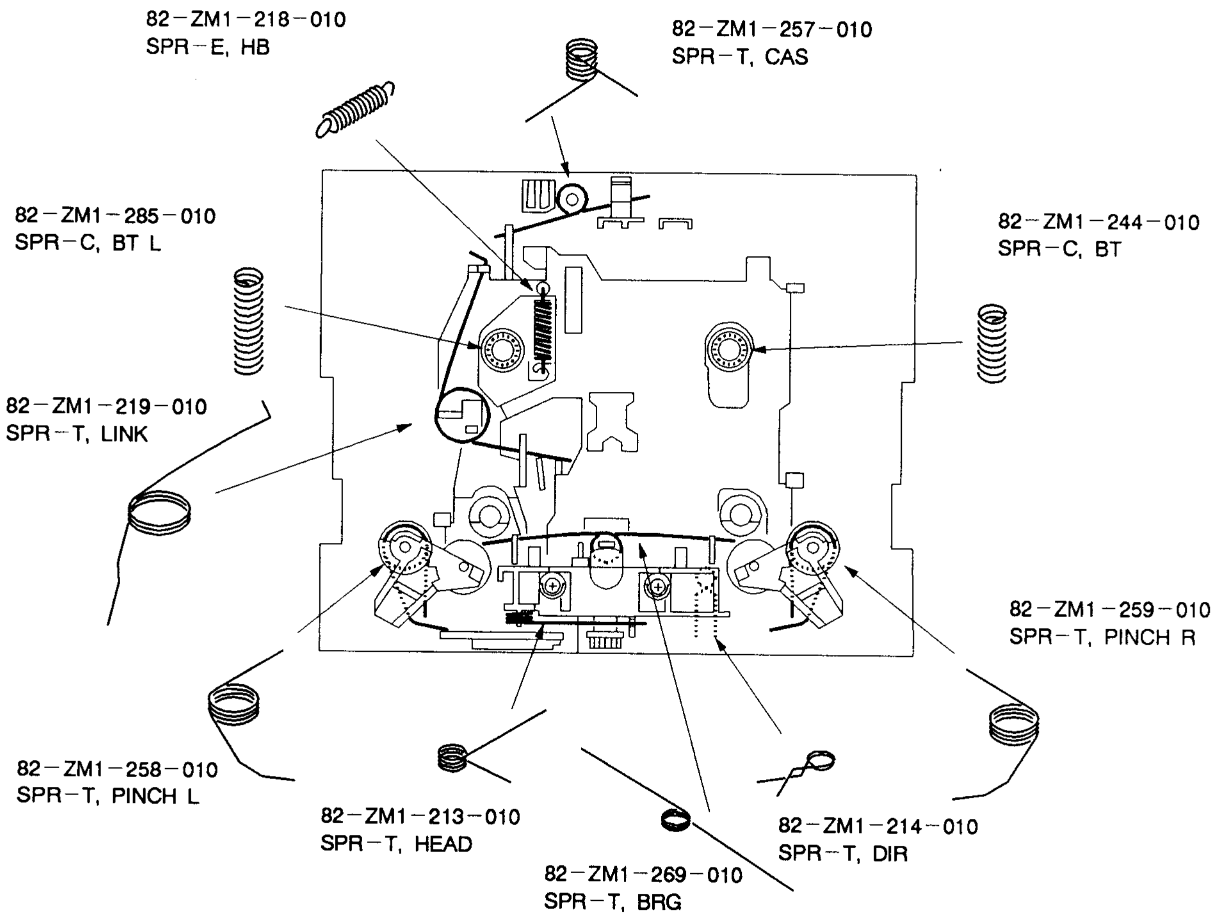
CD MECHANISM EXPLODED VIEW 1/1

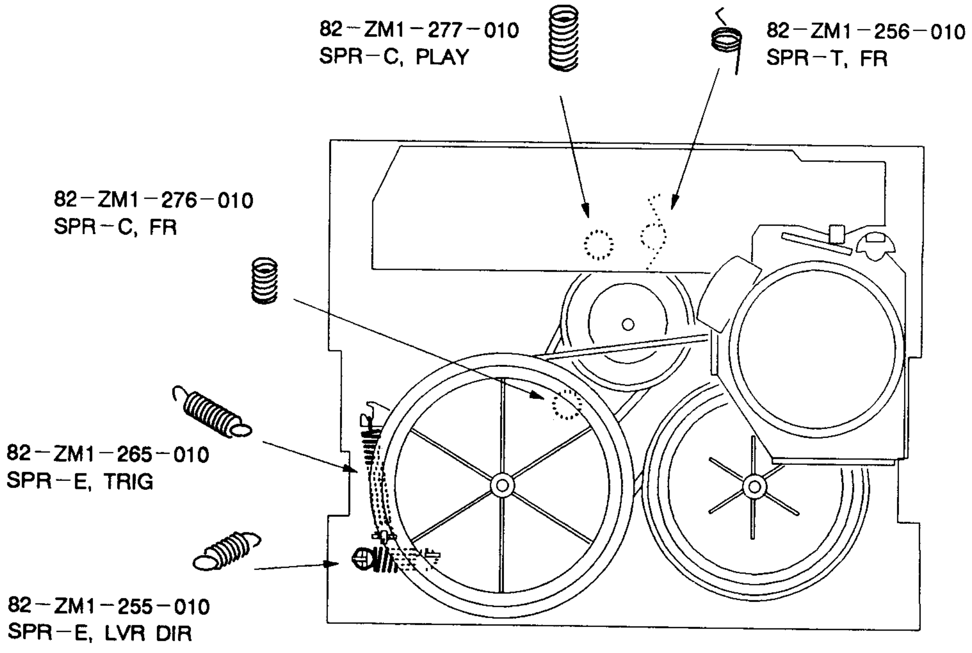

4
3
2
GEAR, B
5
6
1
A
7
8
9
10
MOTOR PWB

CD MECHANISM PARTS LIST 1/1

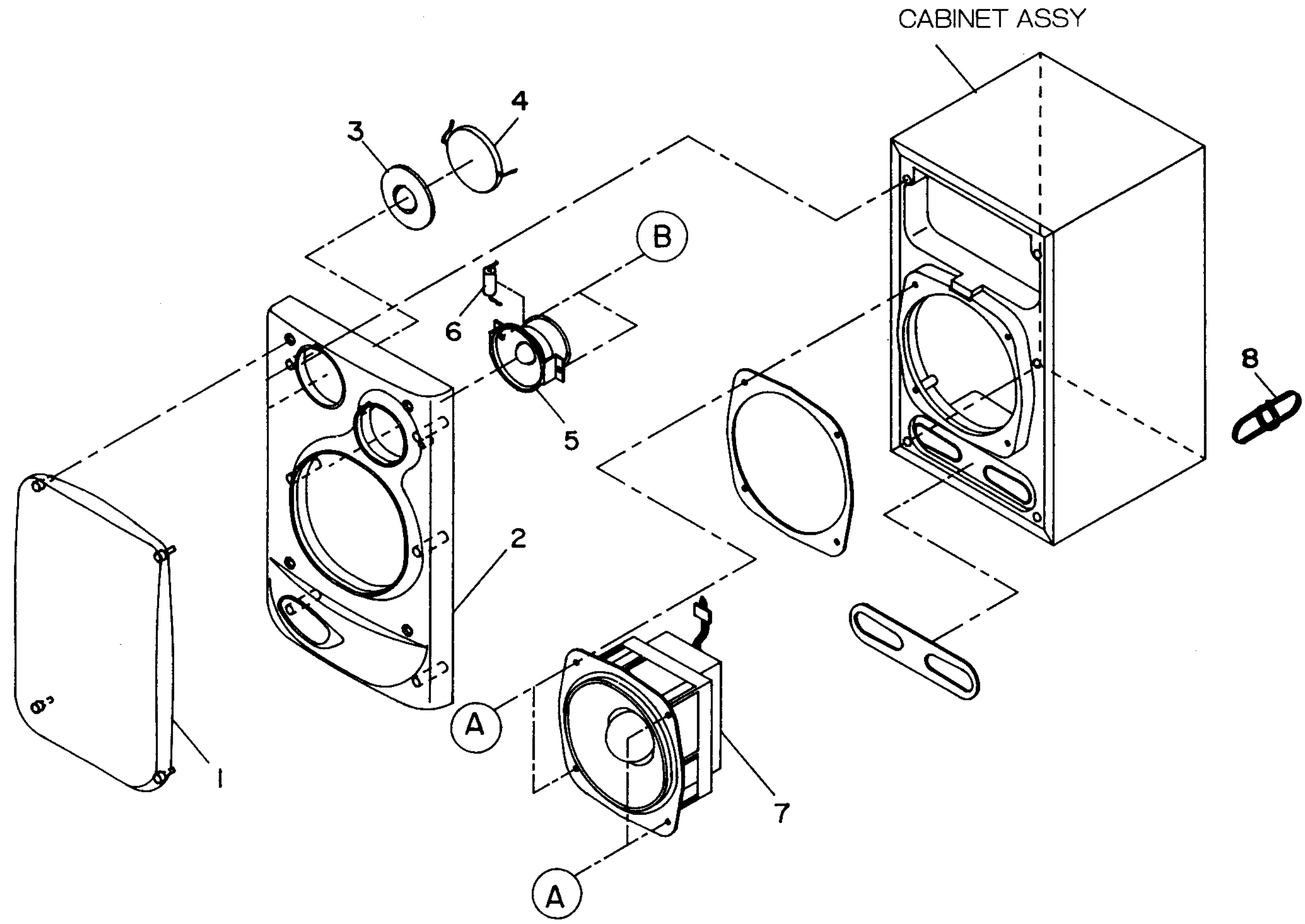
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	9X-262-513-310	2C	T.T CHASS ASSY W/MOTOR
2	92-625-188-020	-	GEAR A
3	92-625-544-010	-	COVER
4	92-625-187-010	1B	RING, CENTER
5	92-625-191-010	1B	SPRING COMPRESSION
6	98-848-127-110	-	PICK UP KSS-210A
7	94-917-565-010	1D	SHAFT SLED
8	91-572-085-110	1B	LEAF SW (LIMIT)
9	9X-262-513-210	2M	SLED MOTOR ASSY
10	91-564-722-110	1B	CONNECTOR 6P
A	87-261-032-210	0E	V+2-3

SPRING APPLICATION POSITION


82-ZM1-218-010
SPR-E, HB
82-ZM1-257-010
SPR-T, CAS
82-ZM1-285-010
SPR-C, BT L
82-ZM1-244-010
SPR-C, BT
82-ZM1-219-010
SPR-T, LINK
82-ZM1-259-010
SPR-T, PINCH R
82-ZM1-258-010
SPR-T, PINCH L
82-ZM1-213-010
SPR-T, HEAD
82-ZM1-214-010
SPR-T, DIR
82-ZM1-269-010
SPR-T, BRG


82-ZM1-277-010
SPR-C, PLAY
82-ZM1-256-010
SPR-T, FR
82-ZM1-276-010
SPR-C, FR
82-ZM1-265-010
SPR-E, TRIG
82-ZM1-255-010
SPR-E, LVR DIR

SPEAKER EXPLODED VIEW



SPEAKER PARTS LIST

DESCRIPTIONで判断できない物は “REFERENCE NAME LIST” を参照してください。
If can’t understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
1	82-NS5-006-010	2B	GRILL FRAME ASSY
2	82-NS5-001-010		PANEL, FRONT R〈HD, HE, LH, HR〉
2	82-NS5-002-010		PANEL, FRONT L〈HD, HE, LH, HR〉
2	82-NS5-013-010	2M	PANEL, FRONT R〈D, E, K, Z〉
2	82-NS5-014-010	2M	PANEL, FRONT L〈D, E, K, Z〉
2	82-NS5-015-010		PANEL, FRONT R〈U〉
2	82-NS5-016-010		PANEL, FRONT L〈U〉
3	82-NS5-010-010	--	DIAPHRAGM
4	82-MSE-610-010	1C	CERAMIC
5	82-NS5-604-010	2P	SPEAKER, TWEETER
6	87-010-006-010	0E	CAP, E 2.7μF
7	82-NS5-602-010	2E	SPEAKER, WOOFER
8	83-096-614-010	1D	CORD, SPEAKER
A	87-343-172-010	0E	UT, +4-12
B	87-342-097-010	0E	UT, +3-12

ACCESSORIES／PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
1	82-NF5-901-110	--	IB, D(D)
2	82-NF5-906-019		IB, U(U)
3	82-NF5-907-019		IB, H(HE, LH, HR)
4	82-NF5-909-010		IB, HD(HD)
5	82-NF5-905-018		IB, E(E, K, Z)
6	81-748-632-010	--	FEEDER ANT FMN(EXCEPT Z)
7	87-043-106-010		FM WIRE ANT(Z)
8	82-NF5-637-019	--	RC, RC-TN500(D)
9	82-NF5-638-019		RC, RC-TN500 (EX)(EXCEPT D)
10	87-006-225-010	--	AM LOOP ANT NC2(EXCEPT E, K)
11	87-006-226-019		AM LOOP ANT CON2(E, K)
12	87-042-062-019		PLUG ADPTR, S-16115(HE, HR)
13	87-009-724-019		PLUG ADPTR, IR39(LH, HD)
14	87-041-072-019		MIC, DM-SH18YJN(Z)

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
ｻｰｼﾞｻﾌﾞﾚｯｻ	SERGESUPPRESSOR
ｾﾗｺﾝ	CAP, CERA

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BAT, CONTACT ASSY	BATTERY CONTACT ASSY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
KNOB, VOL REV	KNOB, VOLUME REV
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTORL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOADING MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
SW	SWITCH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL
ｼﾞｸｱｰﾑ	ARM, SHAFT
ｼﾞｸｶﾞｲﾄﾞ	GUIDE, SHAFT
ｽﾄﾗｯﾌﾟ	STRAP
ﾋﾝｼﾞ	HINGE